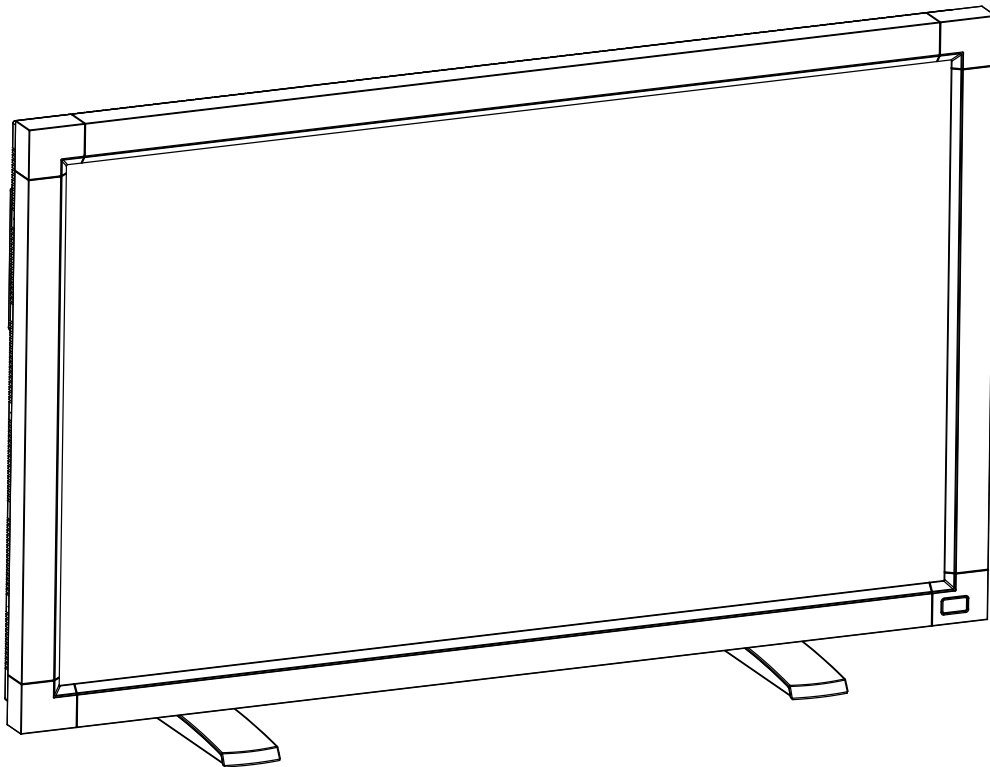




46" LCD Display Monitor **LDT46IV**

**USER'S MANUAL
BEDIENERHANDBUCH
MANUAL DEL USUARIO
MANUEL UTILISATEUR
MANUALE UTENTE
GEBRUIKERSHANDLEIDING
РУКОВОДСТВО ПОЛЬЗОВАТЕЛЯ**



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Important Information

DECLARATION OF CONFORMITY

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions. (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

U.S. Responsible Party:	Mitsubishi Digital Electronics America, Inc.
Address:	9351 Jeronimo Road, Irvine, California 92618 U.S.A.
Tel. No.:	+1 - (949) 465-6000

Type of Product: Computer Monitor
Equipment Classification: Class B Peripheral
Model: LDT461V (DL660)



*We hereby declare that the equipment specified above
conforms to the technical standards as specified in the FCC Rules.*

Windows is a registered trademark of Microsoft Corporation. All other brands and product names are trademarks or registered trademarks of their respective owners.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Canadian Department of Communications Compliance Statement

DOC: This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

C-UL: Bears the C-UL Mark and is in compliance with Canadian Safety Regulations according to CAN/CSA C22.2 No. 60950-1.

FCC Information

1. Use the attached specified cables with the LDT461V (DL660) color monitor so as not to interfere with radio and television reception.
 - (1) Please use the supplied power cord or equivalent to ensure FCC compliance.
 - (2) Please use the supplied shielded video signal cable, 15-pin mini D-SUB to 15-pin mini D-SUB.
2. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult your dealer or an experienced radio/TV technician for help.

If necessary, the user should contact the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet, prepared by the Federal Communications Commission, helpful: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

Important Information

WARNING
<p>TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. ALSO, DO NOT USE THIS UNIT'S POLARIZED PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLETS UNLESS THE PRONGS CAN BE FULLY INSERTED.</p> <p>REFRAIN FROM OPENING THE CABINET AS THERE ARE HIGH VOLTAGE COMPONENTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>

CAUTION
<p>CAUTION TO REDUCE THE RISK OF ELECTRIC SHOCK, MAKE SURE POWER CORD IS UNPLUGGED FROM WALL SOCKET. TO FULLY DISENGAGE THE POWER TO THE UNIT, PLEASE DISCONNECT THE POWER CORD FROM THE AC OUTLET. DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p> <p> This symbol warns user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any part inside this unit.</p> <p> This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.</p>

CAUTION
<p> This LCD Monitor uses a lamp that contains mercury. Disposal of the lamp or the LCD Monitor with the lamp may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org. (For US only).</p>

Declaration

Declaration of the Manufacturer	
<p>We hereby certify that the color monitor LDT461V (DL660) is in compliance with</p> <p>Council Directive 73/23/EEC: – EN 60950-1</p> <p>Council Directive 89/336/EEC: – EN 55022 – EN 61000-3-2 – EN 61000-3-3 – EN 55024</p>	<p>and marked with</p> <div style="text-align: center; font-size: 2em; font-weight: bold; margin: 10px 0;">CE</div> <p>Mitsubishi Electric Corporation 2-7-3, Marunouchi, Chiyoda-Ku Tokyo 100-8310, Japan</p>

Declaration of the Manufacturer	
	<p>Note: This symbol mark is EU countries only.</p> <p>This symbol mark is according to the directive 2002/96/EC Article 10 Information for users and Annex IV.</p> <p>Your MITSUBISHI ELECTRIC product is designed and manufactured with high quality materials and components which can be recycled and reused.</p> <p>This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.</p> <p>Please, dispose of this equipment at your local community waste collection/recycling center.</p> <p>In the European Union there are separate collection systems for used electrical and electronic product.</p> <p>Please, help us to conserve the environment we live in!</p>

Safety Precautions, Maintenance & Recommended Use

FOR OPTIMUM PERFORMANCE, PLEASE NOTE THE FOLLOWING WHEN SETTING UP AND USING THE LCD COLOR MONITOR:

- **DO NOT REMOVE MONITOR BACK COVER.** There are no user serviceable parts inside and opening or removing covers may expose you to dangerous shock hazards or other risks.

Refer all servicing to qualified service personnel.

- Do not spill any liquids into the cabinet or use your monitor near water.
- Do not insert objects of any kind into the cabinet slots, as they may touch dangerous voltage points, which can be harmful or fatal or may cause electric shock, fire or equipment failure.
- Do not place any heavy objects on the power cord. Damage to the cord may cause shock or fire.
- Do not place this product on a sloping or unstable cart, stand or table, as the monitor may fall, causing serious damage to the monitor.
- When operating the LCD monitor with an AC 100-120V power supply in North America, use a power supply cord provided with this monitor.
- When operating the LCD monitor with an AC 220-240V power supply in Europe, use a power supply cord provided with this monitor.
- In UK, use a BS-approved power cord with molded plug having a black (10A) fuse installed for use with this monitor.

If a power cord is not supplied with this monitor, please contact your supplier.

- When operating the LCD monitor with a 220-240V AC power supply in Australia, use the power cord provided with this monitor.
If a power cord is not supplied with this monitor, please contact your supplier.
- For all othercase, use a power cord that matches the AC voltage of the power outlet and has been approved by and complies with the safety standard of your particular country.
- Do not place any objects onto the monitor and do not use the monitor outdoors.
- The inside of the fluorescent tube located within the LCD monitor contains mercury. Please follow the laws or rules of your municipality to dispose of the tube properly.
- Do not bend power cord.
- Do not use monitor in high temperature, humid, dusty, or oily areas.
- If monitor or glass is broken, do not come in contact with the liquid crystal and handle with care.
- Allow adequate ventilation around the monitor, so that heat can properly dissipate. Do not block ventilated openings or place the monitor near a radiator or other heat sources.

Do not put anything on top of the monitor.

- The power cable connector is the primary means of detaching the system from the power supply. The monitor should be installed close to a power outlet, which is easily accessible.
- Handle with care when transporting. Save packaging for transporting.
- Please clean the holes of back cabinet to reject dirt and dust at least once a year because of set reliability.
- If using the cooling fan continuously, it's recommended to wipe holes a minimum of once a month.
- When installing the remote control batteries;
 - Align the batteries according to the (+) and (-) indications inside the case.
 - Align the (-) indication of the battery first inside the case.



CAUTION:

Immediately unplug your monitor from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the monitor.
- If the monitor has been exposed to rain or water.
- If the monitor has been dropped or the cabinet damaged.
- If the monitor does not operate normally by following operating instructions.

Recommended Use

CAUTION:

- For optimum performance, allow 20 minutes for warm-up.
- Rest your eyes periodically by focusing on an object at least 5 feet away. Blink often.
- Position the monitor at a 90° angle to windows and other light sources to minimize glare and reflections.
- Clean the LCD monitor surface with a lint-free, non-abrasive cloth. Avoid using any cleaning solution or glass cleaner!
- Adjust the monitor's brightness, contrast and sharpness controls to enhance readability.
- Avoid displaying fixed patterns on the monitor for long periods of time to avoid image persistence (after image effects).
- Get regular eye checkups.

Ergonomics

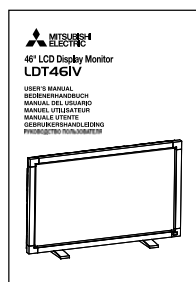
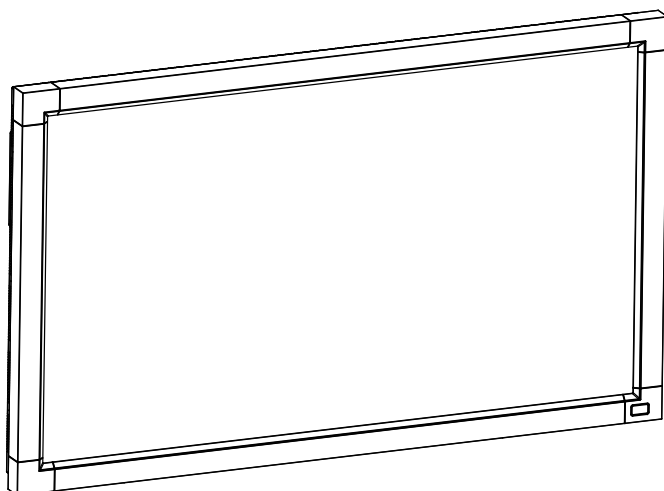
To realize the maximum ergonomic benefits, we recommend the following:

- Use the preset Size and Position controls with standard signals.
- Use the preset Color Setting.
- Use non-interlaced signals.
- Do not use primary color blue on a dark background, as it is difficult to see and may produce eye fatigue due to insufficient contrast.

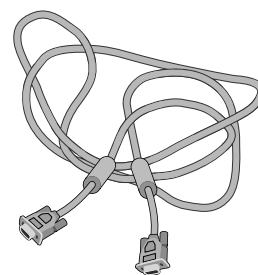
Contents

Your new LDT461V monitor box* should contain the following:

- LCD monitor
- Power Cord (3 m)
- Video Signal Cable (4 m)
- User's Manual
- Wireless Remote Control and AAA Batteries
- Clamper x 2 (To prevent from falling)
- Clamper x 2 (For securing cables)
- Screw for Clamper (to prevent from falling) x 2
- Main switch cover
- Screw for Main Switch cover x 2
- Cable Holder x 2
- Stand x 2
- Thumbscrew for stand x 4



User's Manual



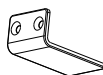
Video Signal Cable
(D-SUB to D-SUB Cable)



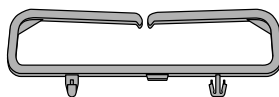
Screw for Main switch cover
(3 x 6) x 2



Screw for Clamper
(M4 x 8) x 2



Main switch cover



Cable Holder x 2

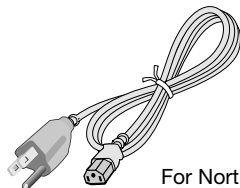


Clamper x 2
(To prevent from falling)

* The supplied power cord varies depending on destination.

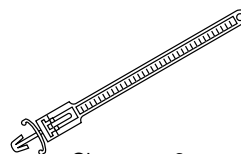


For EU

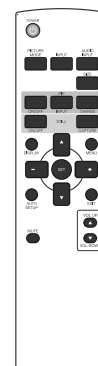


For North America

Power cord

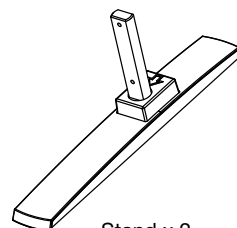


Clamper x 2
(For securing the power cord and HDMI cable)



Wireless Remote Control
and AAA Batteries

* For all other case, use a power cord that matches the AC voltage of the power outlet and has been approved by and complies with the safety standard of your particular country.



Stand x 2



Thumbscrew for Stand x 4

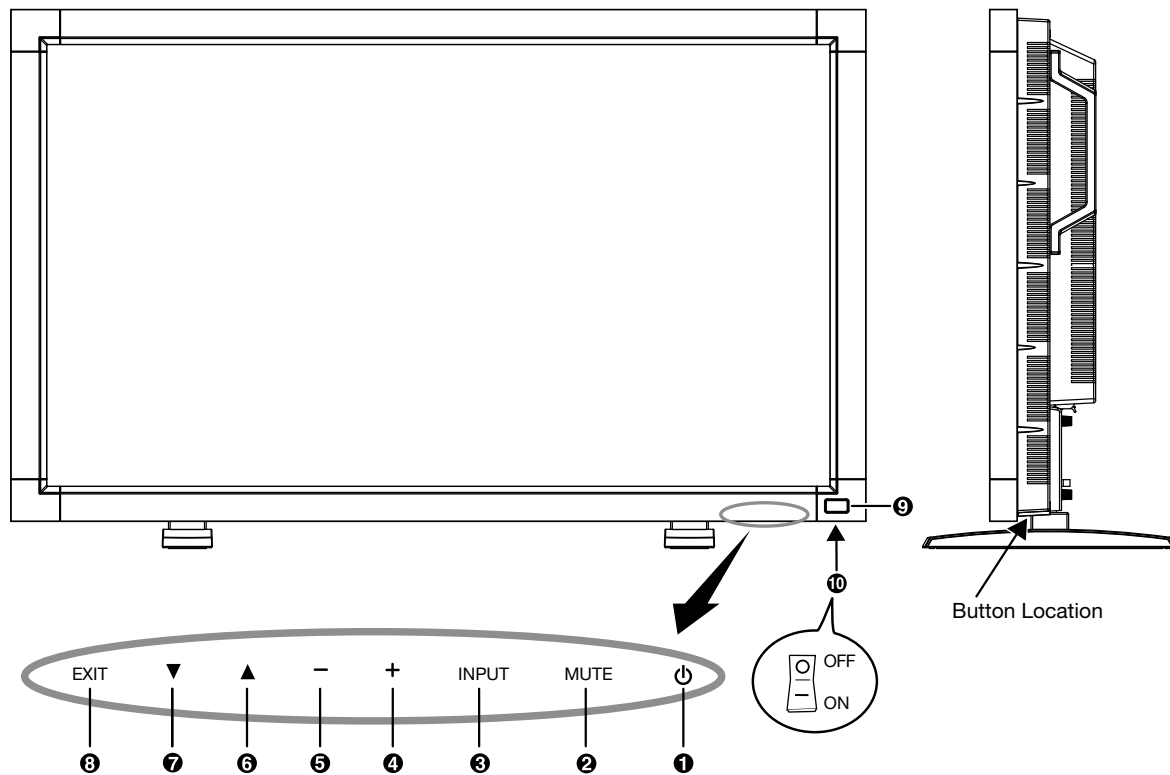
* Remember to save your original box and packing material to transport or ship the monitor.

The following components are prepared as option.

- External Speakers

Parts Name and Functions

Control Panel



❶ POWER button (⏻)

Switches the power on/off. See also page 19.

❷ MUTE button

Switches the audio mute ON/OFF.

❸ INPUT button

Acts as SET button with OSD menu.
(Toggle switches between [RGB1], [RGB2], [RGB3], [RGB4], [DVD/HD], [VIDEO<S>] and [VIDEO] .)

❹ PLUS (+) button

Acts as (+) button to increase the adjustment with OSD menu.
Increase the audio output level when the OSD menu is turned off.

❺ MINUS (-) button

Acts as (-) button to decrease the adjustment with OSD menu.
Decreases the audio output level when the OSD menu is turned off.

❻ UP (▲) button

Activates the OSD menu when the OSD menu is turned-off.
Acts as ▲ button to move the highlighted area up to select the adjustment with OSD menu.

❼ DOWN (▼) button

Activates the OSD menu when the OSD menu is turned-off.
Acts as ▼ button to move the highlighted area down to select the adjustment with OSD menu.

❽ EXIT button

Activates the OSD menu when the OSD menu is turned-off.
Acts as EXIT button to move to previous menu with OSD menu.

❾ Remote control sensor and Power indicator

Receives the signal from the remote control (when using the wireless remote control). See also page 9.
Glow green when the LCD monitor is in active and glow red when the LCD is in POWER OFF mode. When the LCD is in power save mode, it will glow both green and red. When SCHEDULE is enabled, it will blink green and glow red. See page 20. In the case of where a failure is detected, it will blink red.

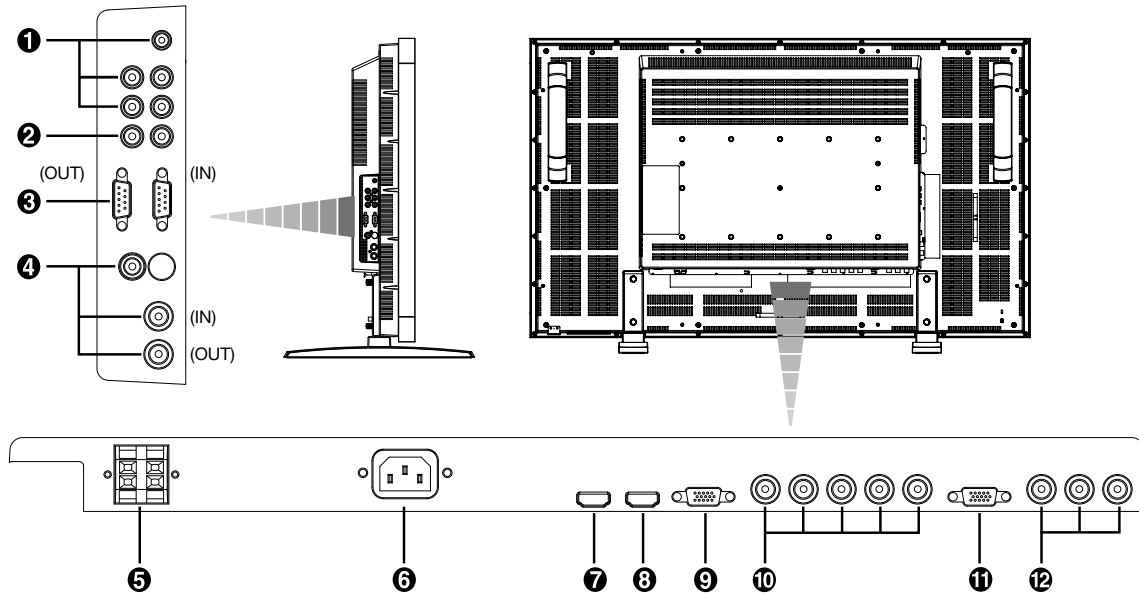
❿ Main Power Switch

On/Off Switch to turn main power on/off.

NOTE: Control Key Lock Mode

This control completely locks out access to all Control Key functions. To activate the control key lock function, press both of “▲” and “▼” and hold down simultaneously for more than 3 seconds. To resume back to user mode, press both of “▲” and “▼” and hold simultaneously for three (3) seconds.

Terminal Panel



❶ AUDIO IN 1, 2, 3

To input audio signal from external equipment such as a computer, VCR or DVD player.

❷ AUDIO OUT

To output the audio signal from the AUDIO IN 1,2 and 3 jack.

❸ EXTERNAL CONTROL (mini D-Sub 9 pin)

Connect the IN connector with the RS-232C OUT connector of the computer or a multi-connected LDT461V monitor. Connect the OUT connector with the RS-232C IN connector of LDT461V monitor.

❹ VIDEO IN/OUT

VIDEO IN connector (BNC and RCA): To input a composite video signal. BNC and RCA are not available at the same time. (Use only one input).

VIDEO OUT connector (BNC): To output the composite video signal from VIDEO IN connector.

S-VIDEO IN connector (MINI DIN 4 pin): To input the S-video (Y/C separate signal).

❺ EXTERNAL SPEAKER TERMINAL

To output the audio signal for external speakers from AUDIO 1, 2, 3 jack or HDMI.

❻ AC IN connector

Connects with the supplied power cord.

❼ RGB 1 IN (HDMI 1)

To input digital RGB signals from a computer.

* This connector does not support analog input. AUDIO is supported via HDMI.

❽ RGB 2 IN (HDMI 2)

To input digital RGB signals from a computer.

* This connector does not support analog input. AUDIO is supported via HDMI.

❾ RGB 3 IN (mini D-Sub 15 pin)

To input a analog RGB signals from a computer or other RGB equipment.

❿ RGB 4 IN [R, G, B, H, V] (BNC)

To input the analog RGB signals from a computer or other RGB equipment.

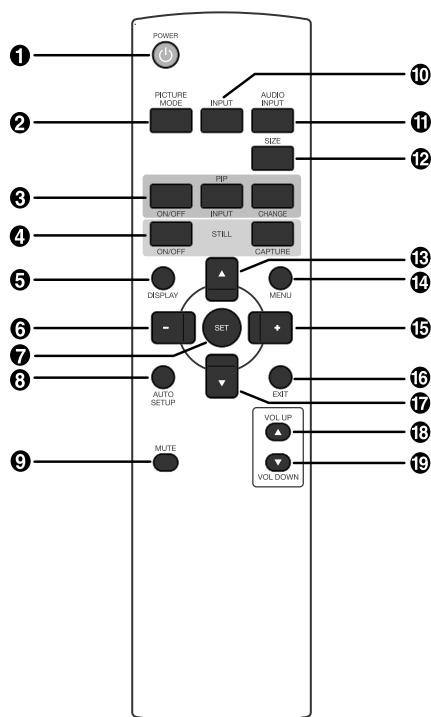
⓫ RGB OUT (mini D-Sub 15 pin)

To output the signal from RGB 3 IN or 4 IN.

⓬ DVD/HD IN [Y, Pb/Cb, Pr/Cr] (BNC)

Connecting equipment such as a DVD player, HDTV device, or Laser disc player.

Wireless Remote Control



1 POWER button

Switches the power on/off.

* If Power Indicator is not glowing, then no controls will work.

2 PICTURE MODE button

Selects from picture mode, [HIGHBRIGHT], [STANDARD], [sRGB], [CINEMA]. See page 20.

HIGHBRIGHT: for moving image such as DVD

STANDARD: for images (Factory setting)

sRGB: for text based images

CINEMA: for movies.

3 PIP (Picture In Picture) button

ON/OFF button: PIP-ON/OFF. See page 25.

INPUT button: Select the “picture in picture” input signal.

CHANGE button: Replaces to the main picture and sub picture.

Note:

The “PIP” and “POP” modes do not function when the screen size is “CUSTOM” or “REAL”.

4 STILL button

ON/OFF button: To switch the still picture mode on/off.

CAPTURE button: Updates the still picture.

5 DISPLAY button

To switch the information OSD on/off. See page 21.

6 MINUS button decrease

Acts as (-) button to decrease the adjustment with OSD menu.

Small screen which adjusted “PIP” mode moves left.

7 SET button

Acts as SET button with OSD menu.

8 AUTO SETUP button

To enter the auto setup menu. See page 26.

9 MUTE button

To switch the mute function on/off.

10 INPUT button

Selects from input signal, [RGB1], [RGB2], [RGB3], [RGB4], [DVD/HD], [VIDEO<S>] and [VIDEO].

11 AUDIO INPUT button

Press to change the audio source for each video source. The audio source is changed from [AUDIO1] to [AUDIO2], [AUDIO3] and [HDMI] in order. Note that you cannot select the audio source for [VIDEO<S>] or [VIDEO]. [HDMI] is selectable only when the video source is [RGB 1] and [RGB 2].

12 SIZE button

Selects picture size, [FULL], [NORMAL], [CUSTOM], [DYNAMIC] and [REAL]. See page 20.

13 UP button

Acts as ▲ button to move the highlighted area up to select the adjustment with OSD menu.

Small screen which adjusted “PIP” mode moves up.

14 MENU button

To switch the menu mode on/off.

15 PLUS button increase

Acts as (+) button to increase the adjustment with OSD menu.

Small screen which adjusted “PIP” mode moves right.

16 EXIT button

Turn to previous menu with OSD menu.

17 DOWN button

Acts as ▼ button to move the highlighted area down to select the adjustment with OSD menu.

Small screen which adjusted “PIP” mode moves down.

18 VOLUME UP button

Increase the audio output level.

19 VOLUME DOWN button

Decrease the audio output level.

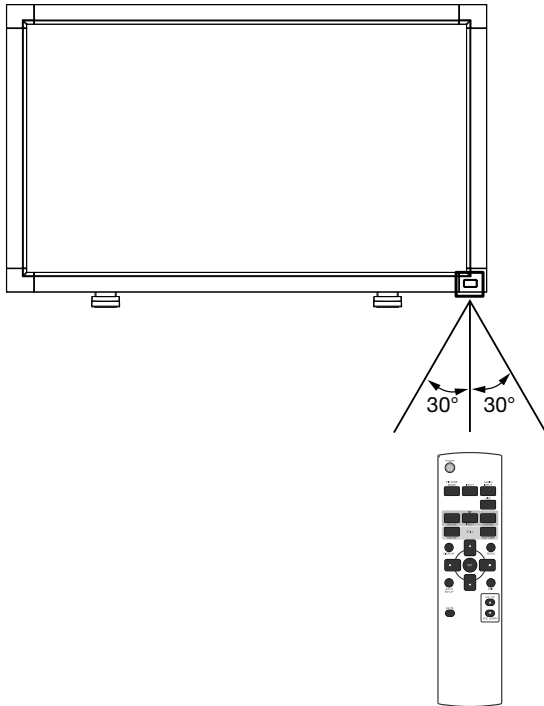
Operating Range for the Remote Control

Point the top of the remote control toward the LCD monitor's remote sensor during button operation.

Use the remote control within a distance of about 7 m/23 ft. from the front of the LCD monitor's remote control sensor and at a horizontal and vertical angle of within 30° within a distance of about 3 m/10 ft.

Handling the remote control

- * Do not subject to strong shock.
- * Do not allow water or other liquid to splash the remote control. If the remote control gets wet, wipe it dry immediately.
- * Avoid exposure to heat and steam.
- * Other than to install the batteries, do not open the remote.



CAUTION:

Important, the remote control system may not function when direct sunlight or strong illumination strikes the remote control sensor of the LCD monitor, or when there is an object in the path.

Setup Procedure

1. Determine the installation location

CAUTION:

DO NOT ATTEMPT TO INSTALL THE LCD MONITOR BY YOURSELF.

Installing your LCD display must be done by a qualified technician. Contact your dealer for more information.

CAUTION:

MOVING OR INSTALLING THE LCD MONITOR MUST BE DONE BY TWO OR MORE PEOPLE.

Failure to follow this caution may result in injury if the LCD monitor falls.

CAUTION:

Do not mount or operate the display upside down, face up, or face down.

CAUTION:

Do not install the LCD monitor where it will be exposed to direct sunlight, as this will result in display defects.

CAUTION:

This LCD has a temperature sensor and cooling fan. If the LCD becomes too hot, the cooling fan will turn on automatically. If the LCD becomes overheated and the cooling fan is running, the "Caution" menu will appear. If the "Caution" menu appears, discontinue use and allow the unit to cool. When the LCD monitor is used in an enclosure or with protection on LCD surface, please check the inside temperature of monitor by "HEAT STATUS" (See page 29). The temperature is too hot than normal condition, please set "cooling fan" to ON on SCREEN SAVER function (See page 26).

IMPORTANT:

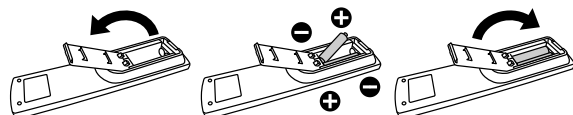
Lay the protective sheet, which was wrapped around the LCD monitor when it was packaged, beneath the LCD monitor so as not to scratch the panel.

2. Install the remote control batteries

The remote control is powered by 1.5V AAA batteries.

To install or replace batteries:

1. Press and slide to open the cover.
2. Align the batteries according to the (+) and (-) indications inside the case.
3. Replace the cover.



CAUTION:

Incorrect use of batteries can result in leaks or bursting. Be careful especially about the following points.

- Place "AAA" batteries matching the + and - signs on each battery to the + and - signs of the battery compartment.
- Do not mix battery types.
- Do not combine new batteries with used ones. It causes shorter battery life or leakage of batteries.

- Remove dead batteries immediately to prevent battery liquid from leaking into the battery compartment. Don't touch exposed battery acid, it cause damage to your skin.

NOTE:

If you do not intend to use the Remote Control for a long period, remove the batteries.

3. Connect external equipment

(See page 14-18)

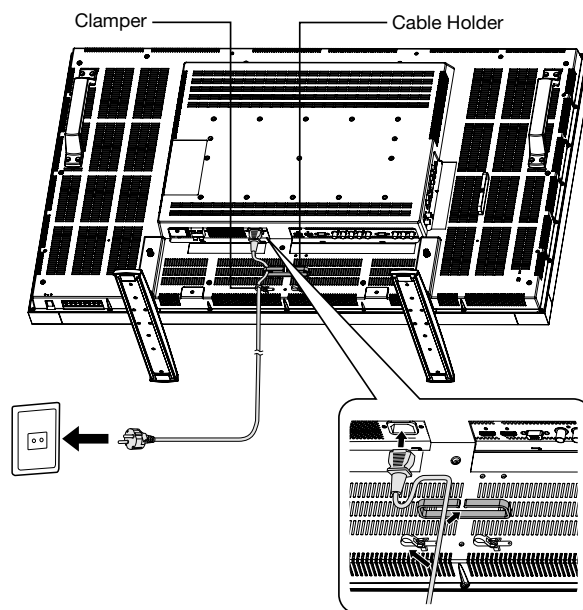
- To protect the connected equipment, turn off the main power before making connections.
- Refer to your equipment user manual.

4. Connect the supplied power cord

- The power outlet socket should be installed as near to the equipment as possible, and should be easily accessible.
- Fully insert the prongs into the power outlet socket. Loose connection may cause noise.

NOTE:

Please refer to "Safety Precautions, Maintenance & Recommended Use" section of this manual for proper selection of AC power cord.



5. Switch on the power of all the attached external equipment

When connected with a computer, switch on the power of the computer first.

6. Operate the attached external equipment

Display the signal on the external equipment you wish.

7. Adjust the sound

Make adjustments when adjustment of the volume is required.

8. Adjust the screen (See pages 23-31)

Make adjustments when adjustment of the screen display position or distortion is required.

9. Adjust the image (See page 23-31)

Make adjustments when adjustment such as the brightness or contrast is required.

10. Recommended Adjustment

To reduce the risk of “image persistence”, please adjust the following items based on the application being used. “POWER SAVE” (See page 26), “SCREEN SAVER” (See page 26), “SIDE BORDER COLOR”(See page 26), “DATE AND TIME” (See page 29), “SCHEDULE”(See page 29).

11. Installing and removing stands

How to install stands

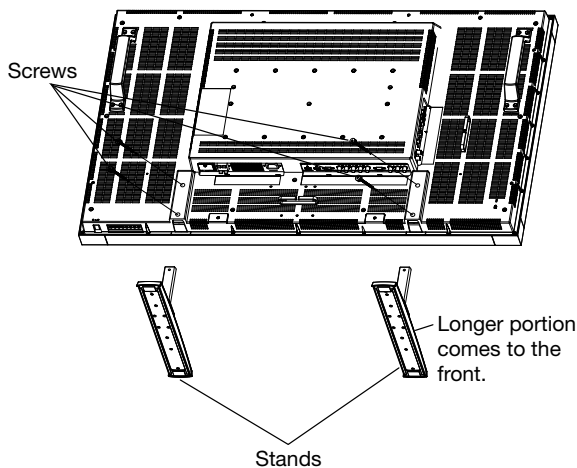
1. Please turn monitor off.
2. After inserting stand in guide block, fasten Thumbscrews on both sides of the monitor.

NOTE:

Install the stands so that their longer portions come to the front.

How to remove the stands

1. Spread the protective sheet on the flat surface, such as a desk.
2. Place monitor on the protective sheet.
3. Remove screws with a screwdriver and place them in a safe place for reuse.

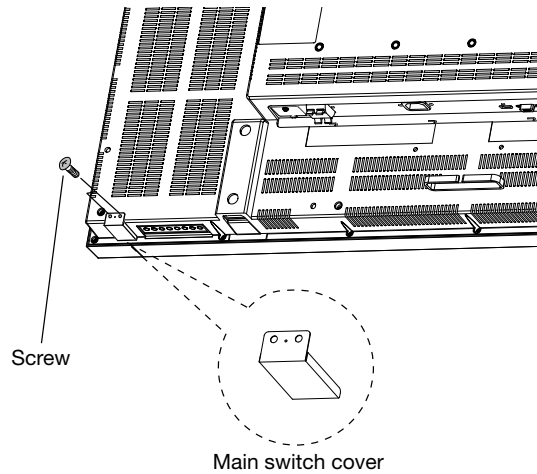


12. To prevent the main power switch from being changed

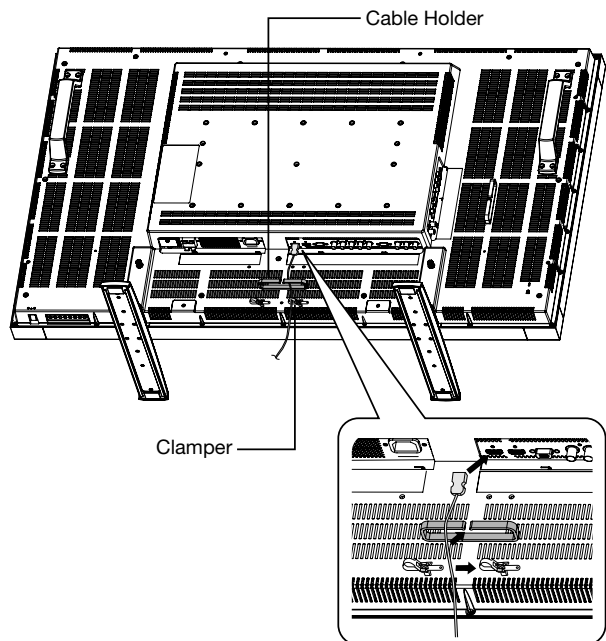
To prevent the ability to use the main power switch, please attach the main switch cover, which is enclosed as an accessory.

NOTE:

With the main power switch cover in place, the main power switch can not be turned off. Remove main power switch cover in order to switch off the display.



13. Connecting HDMI cable



14. When LDT461V is installed in portrait position

Conditions

LDT461V can be installed in portrait position, under the following conditions:

Caution:

Portrait position is effective only when wall-mounted or ceiling-mounted.

The stands(legs) can not be fitted to the monitor in portrait position.

Placing the monitor in portrait position, will shorten the average life of the LCD backlight.


Operational Environment (Temperature) shall be limited, as shown below:

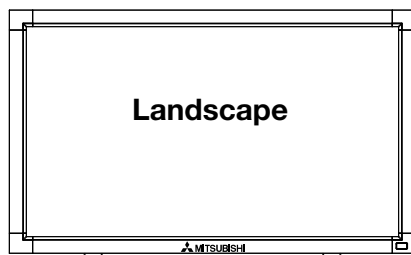
Operational Environment	Temperature	5 - 35 °C / 41 - 95 °F
	Humidity	20 - 80 % (without condensation)

Please orientate the monitor in the direction shown below:

Do not place monitor in landscape in any other manner.

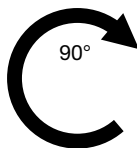
How to set-up

1. Remove the stands(legs).
2. The "  MITSUBISHI" logo should be on the LEFT side when facing the monitor.

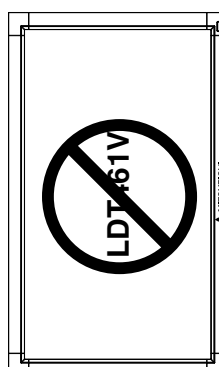
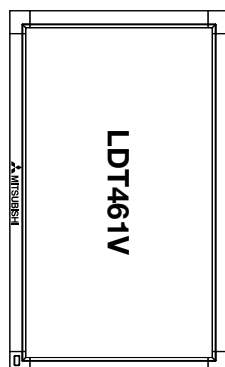
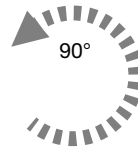


Remove the stands (legs).

Clockwise



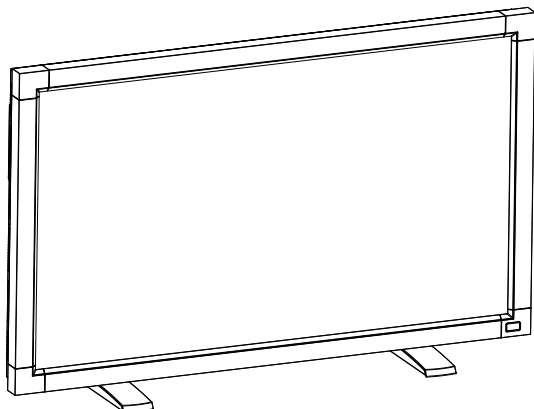
Counterclockwise



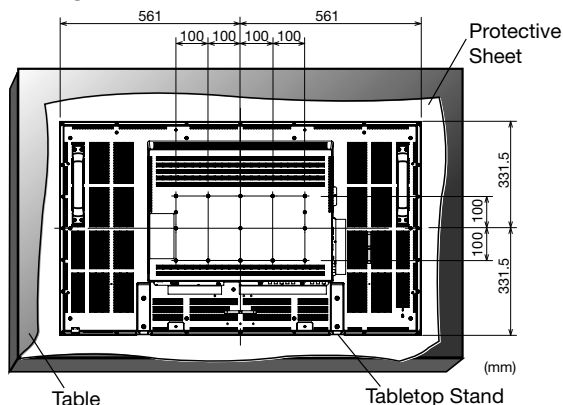
How to Mount and Attach Options to the LCD Monitor

You can attach mounting accessories to the LCD monitor in one of the following two ways:

1. In the upright position



2. Lay the screen face down



Lay the protective sheet on a table, which was wrapped around the monitor when it was packaged, beneath the screen surface so as not to scratch the screen face. This device cannot be used or installed without the Tabletop Stand or other mounting accessory. Failure to follow correct mounting procedures could result in damage to the equipment or injury to the user or installer. Product warranty does not cover damage caused by improper installation. Failure to follow these recommendations could result in voiding your warranty.

Use M6 mounting screws (having a length 10 mm longer than the thickness of the mounting bracket) and tighten them securely. (Recommended torque: 470 - 635N•cm). MITSUBISHI ELECTRIC recommends using mounting interface that comply with TÜV-GS and/or UL1678 standard in North America.

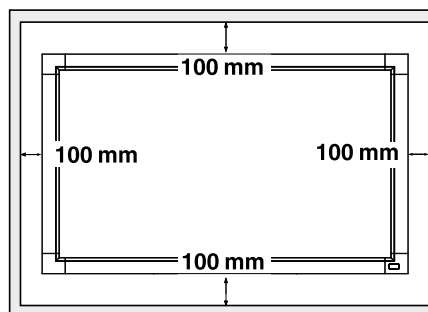
Caution:

For preventing the monitor from falling.

- Install the monitor with metal brackets for wall or ceiling installation (commercially available) on your own responsibility. For detailed procedures of installation, refer to the instructions of the metal brackets.
- To lessen the probability of injury and damage resulting from fall of the monitor in case of earthquake or other disaster, be sure to consult the bracket manufacturer for installation location.
- Do not sleep where the monitor may topple over or fall in case of an earthquake or other disaster.

3. Ventilation Requirements for enclosure mounting

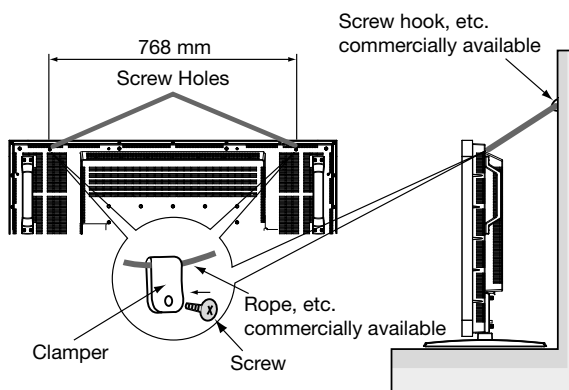
To allow heat to disperse, leave space between surrounding objects as shown in the diagram below.



4. To avoid monitor from falling

Take measures to prevent the monitor from falling over in case of an earthquake or other disaster to lessen the probability of injury and damage resulting from fall.

As shown in the figure, secure the monitor to a solid wall or pillar using rope (commercially available) strong enough to bear the weight of the monitor. (LDT461V: approx. 27.4 kg) When you use screw hooks (commercially available), ring screw hooks, not C-shaped screw hooks (with opening), are recommended.



Caution:

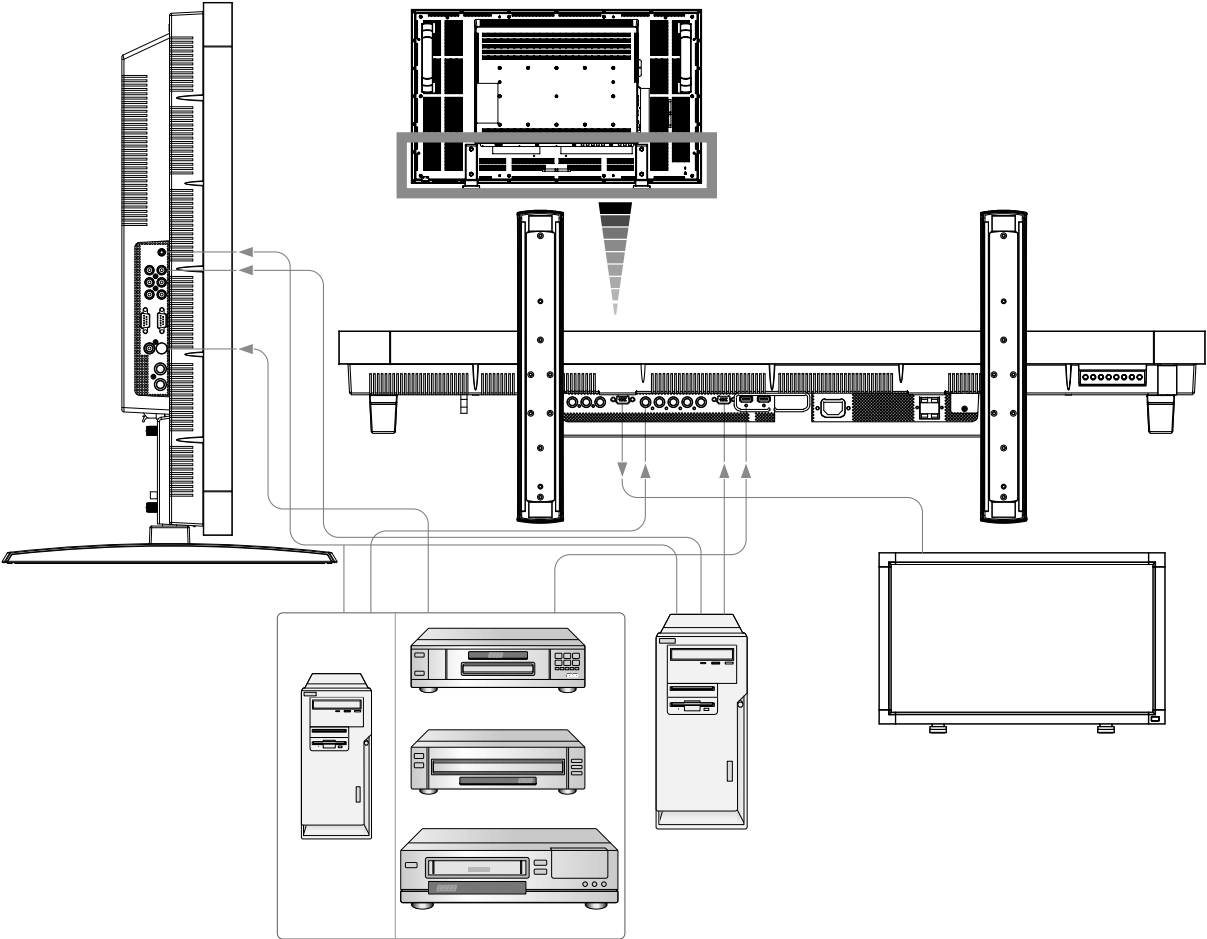
- The effectiveness of preventing from falling substantially depends on the strength of brackets and base to which prevention device from falling is attached. When you cannot ensure sufficient strength, provide adequate reinforcement.
- Though the recommended prevention from falling is intended to lessen the probability of injury and damage, it doesn't assure its effectiveness against any kind of earthquake or disaster.
- Do not sleep where the monitor may topple over or fall in case of an earthquake or other disaster.
- Before moving the monitor, remove the rope that is securing the monitor. Failure to do so may result in injury or breakdown of the monitor.

Connections

Before making connections:

- * First turn off the power of all the attached equipment and make connections.
- * Refer to the user manual included with each separate piece of equipment.

Wiring Diagram

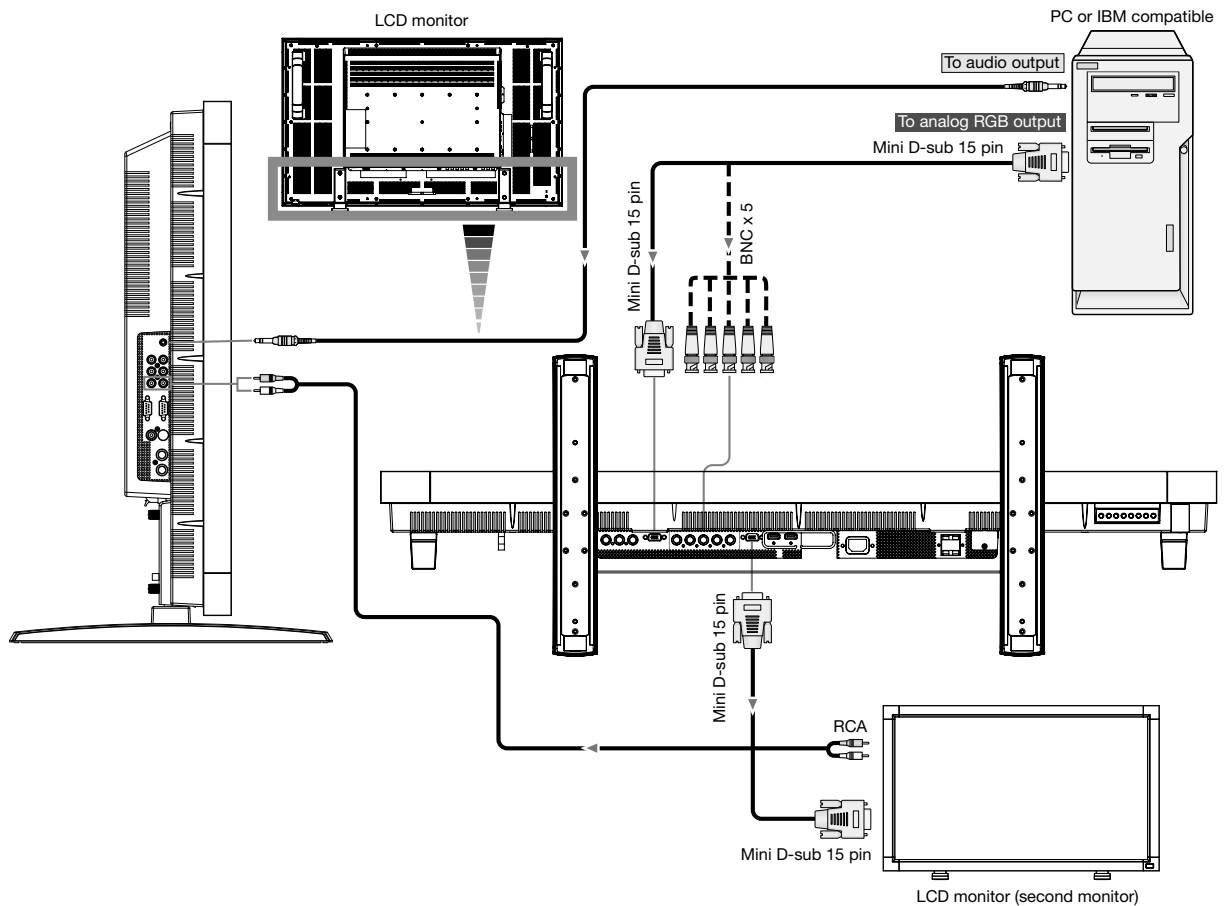


Connecting a Personal Computer

Connecting your computer to your LCD monitor will enable you to display your computer's screen image. Some video cards may not display an image correctly.

Connect the LCD Monitor to a Personal Computer

- To connect the RGB 3 IN connector (mini D-sub 15 pin) on the LCD monitor, use the supplied PC - Video RGB signal cable (mini D-sub 15 pin to mini D-sub 15 pin).
- To connect the RGB 4 IN connector (BNC) on the LCD monitor, use a signal cable which is available separately (mini D-sub 15 pin to BNC x 5). Select RGB 4 from the INPUT button.
- When connecting one or more LCD monitors, use the RGB OUT connector (mini D-sub 15 pin).
- The AUDIO IN 1, 2, 3 or HDMI can be used for audio input. For connection, select AUDIO 1, 2, 3 or HDMI from the AUDIO INPUT button.
- The AUDIO OUT jack outputs sound from the selected Audio input.

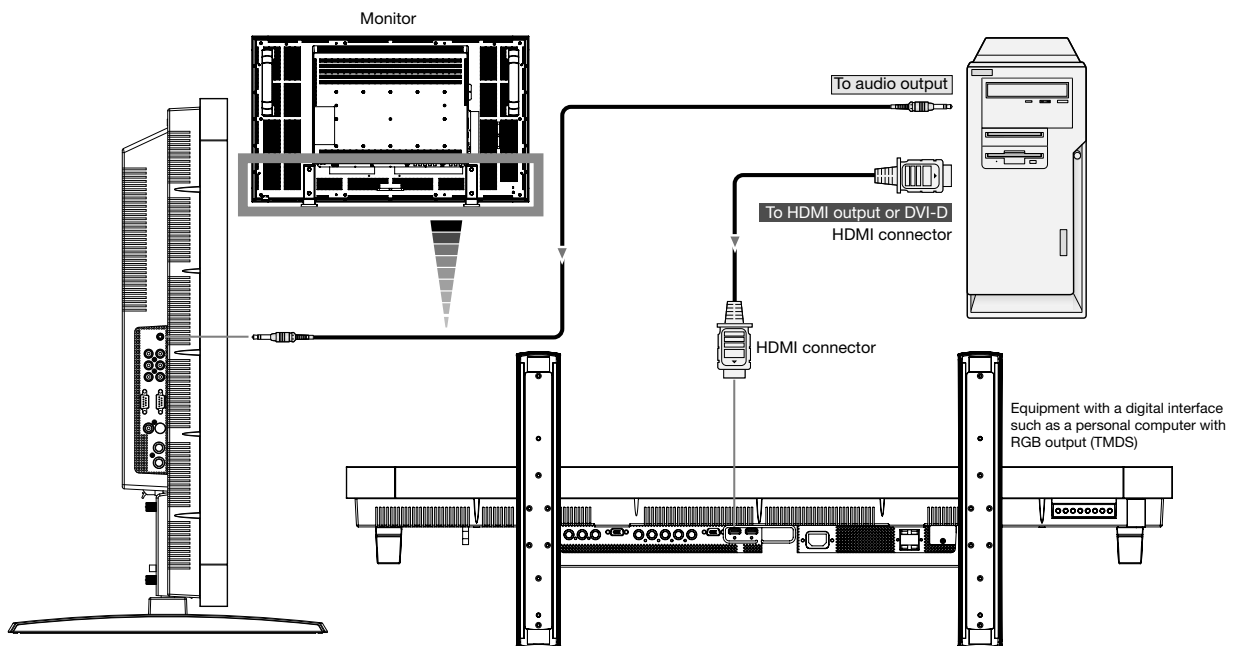


Connecting with Digital Interface Equipment

Connections can be made with equipment that is equipped with a digital interface compliant with the DVI (Digital Visual Interface) standard.

Connect the LCD Monitor to a Computer with a Digital Output

- The RGB 1, RGB 2 IN connector accepts a HDMI cable.
- The RGB 1, RGB 2 IN connector can connect to HDMI output or DVI-D output of PC.
- To maintain display quality, use a cable with a quality prescribed by DVI standards. (See 29 page “DVI-MODE”)
- The AUDIO IN 1, 2, 3 or HDMI can be used for audio input. For connection, select AUDIO 1, 2, 3 or HDMI from the AUDIO INPUT button.
- The signal input from HDMI connector cannot be output to the RGB OUT connector.

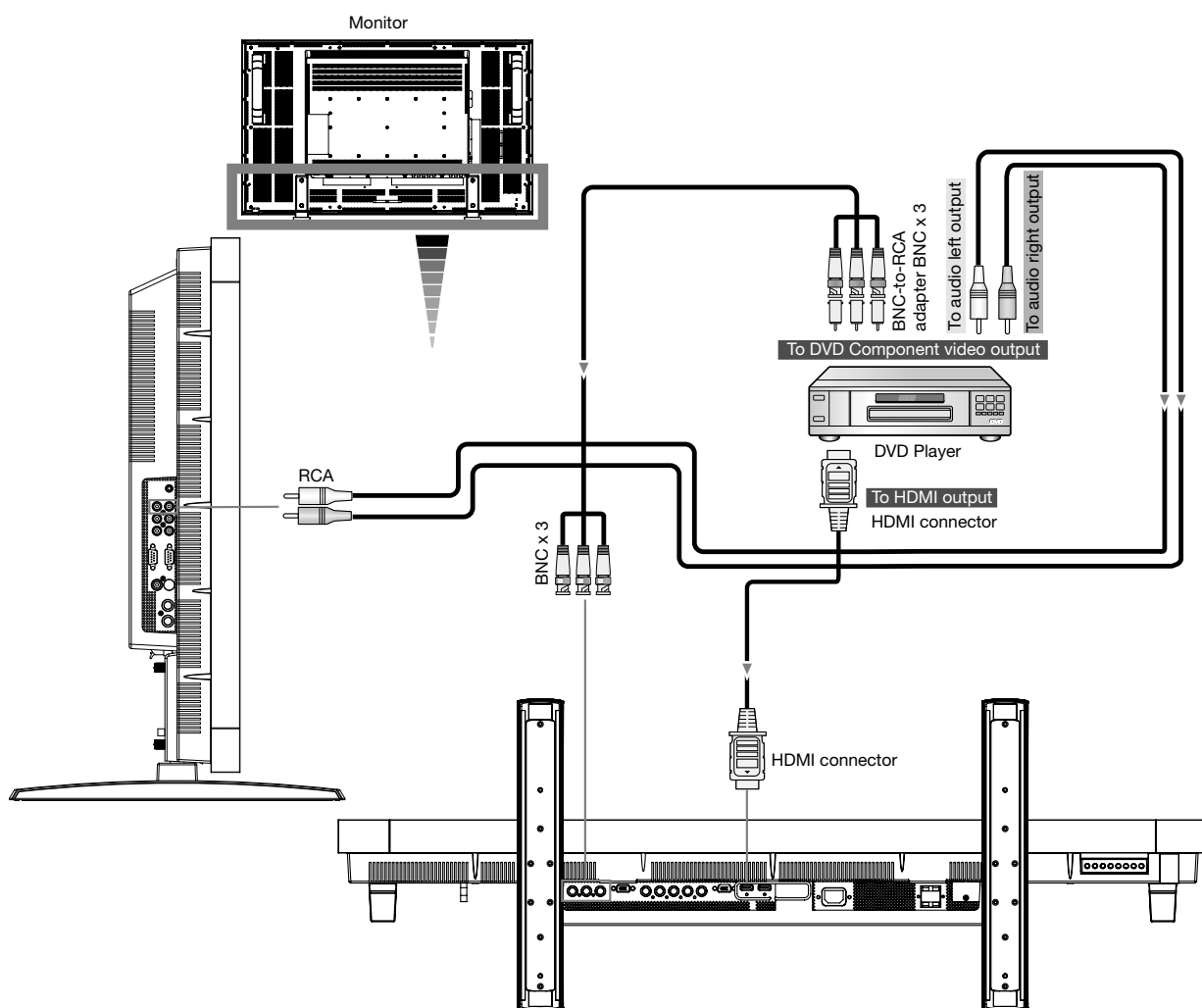


Connecting a DVD Player with component out

Connecting your DVD player to your LCD monitor will enable you to display DVD video. Refer to your DVD player owner's manual for more information.

Connect the LCD Monitor to a DVD Player

- To connect the DVD/HD In connector (BNC) on the LCD monitor, use a separately available BNC connector cable. You will need a BNC-to-RCA adapter to connect a DVD player with an RCA pin jack to the BNC connector cable (not provided).
- The AUDIO IN 2 and 3 (both RCA) can be used for audio input. For connection, select [AUDIO 1], [AUDIO 2], [AUDIO 3] or [HDMI] from the AUDIO INPUT button.

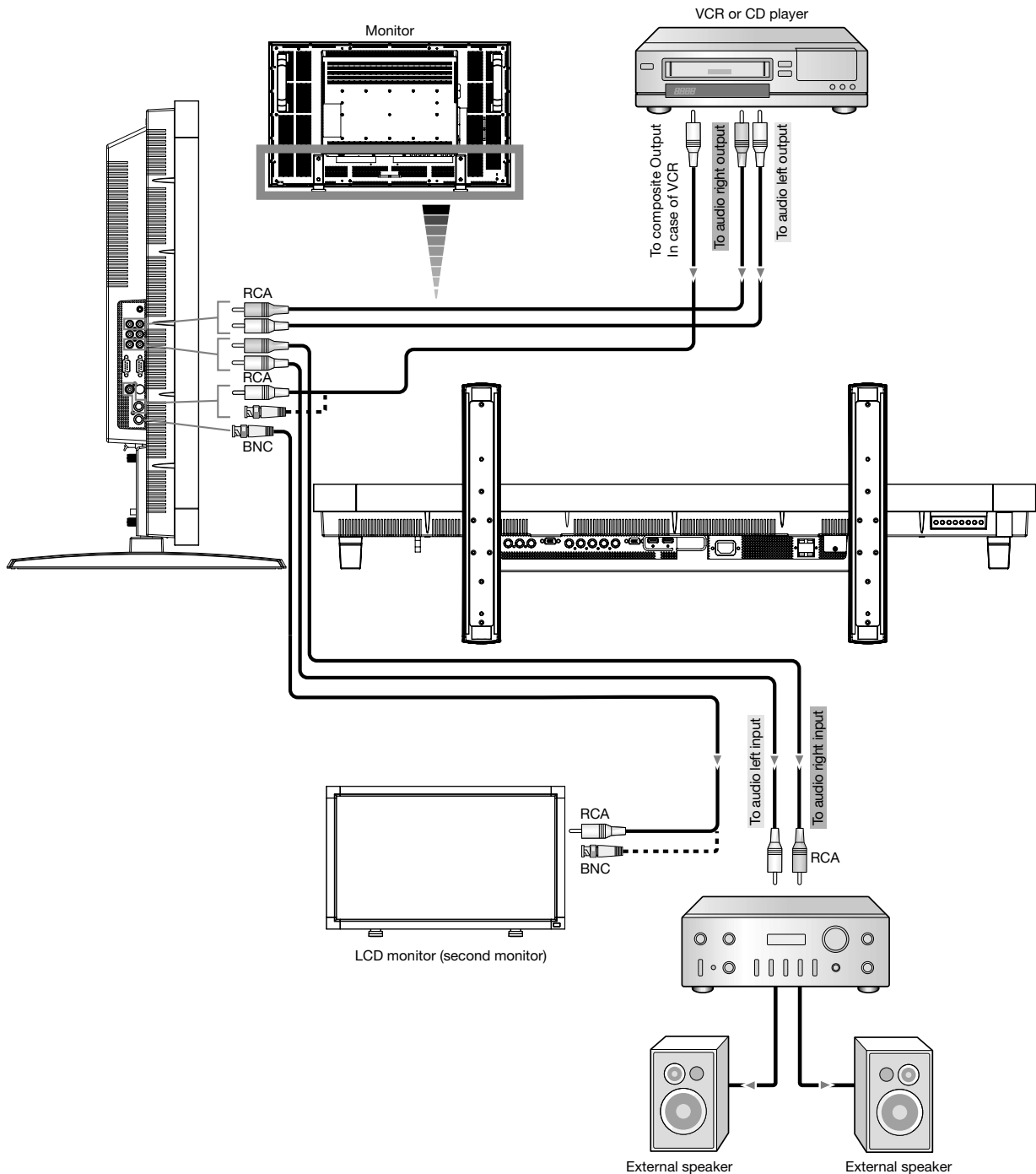


Connecting to a Stereo Amplifier

You can connect your stereo amplifier to your LCD monitor. Refer to your amplifier owner's manual for more information.

Connect the LCD Monitor to a Stereo Amplifier

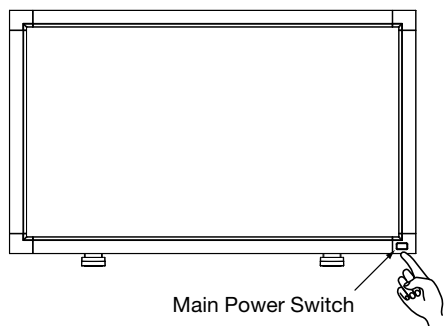
- Turn on the LCD monitor and the amplifier only after all connections have been made.
- Use an RCA cable to connect the AUDIO OUT connector (RCA) on the LCD monitor and the audio input on the amplifier.
- Do not reverse the audio left and right jacks.
- The AUDIO IN 2 and 3 (both RCA) can be used for audio input. For connection, select [AUDIO1], [AUDIO2], [AUDIO3] or [HDMI] from the AUDIO INPUT button.
- The AUDIO OUT jack outputs sound from the selected Audio input.



Basic Operation

Power ON and OFF Modes

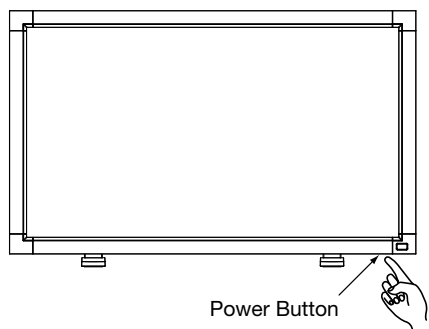
The LCD monitor power indicator will turn green while powered on or red in off mode. The monitor can be powered on or off using the following three options:



1. Pressing the Main Power Switch.

NOTE:

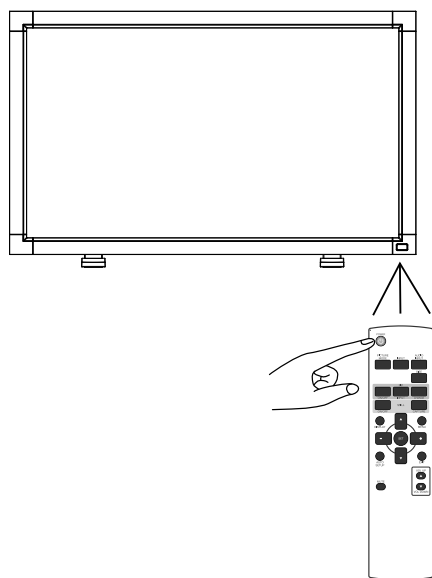
When the Main Power Switch is used to power off the LCD monitor, the remote control and the power button will not activate the on mode and both green and red power indicator turn off. Be sure to turn the Main Power Switch to the on mode before using these two options.



2. Pressing the power button.

NOTE:

Before pressing the power button, be sure to turn on the Main Power button on the LCD monitor.



3. Using the remote control.

NOTE:

Before operating the remote control, be sure to turn on the Main Power Switch on the LCD monitor.

Power Indicator

	Status
Power ON	Green
Power OFF	Red
Power Standby when "SCHEDULE" is enable	Red On Green Blinking
Power Standby	Red, Green
Diagnosis (Detecting failure)	Red Blinking * See troubleshooting on page 35

Using Power Management

The LCD monitor follows the VESA approved DPM Power Management function.

The power management function is an energy saving function that automatically reduces the power consumption of the display when the keyboard or the mouse has not been used for a fixed period.

The power management feature on your new display has been set to the "ON" mode. This allows your display to enter a Power Saving Mode when no signal is applied. This could potentially increase the life and decrease the power consumption of the display.

Selecting a video source

To view a video source:

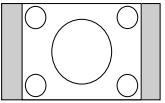
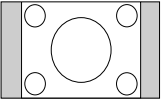
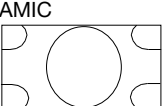
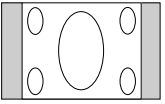
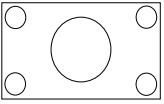
Use the input button to set [VIDEO].

Use the COLOR SYSTEM menu to set [AUTO], [NTSC], [PAL], [SECAM], [PAL60], [4.43NTSC], according to your video format.

Picture Size

RGB 1, 2, 3, 4 FULL → NORMAL → CUSTOM
 ↑ ↓
 REAL ←

DVD/HD, VIDEO FULL → NORMAL → DYNAMIC
 ↑ ↓
 REAL ← CUSTOM ←

Signal Type	NORMAL SIZE	Recommended Size
4:3		NORMAL 
		DYNAMIC 
Squeeze		FULL 

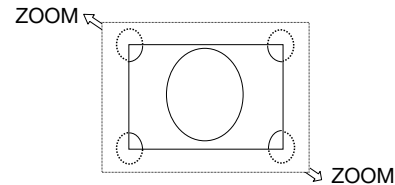
NORMAL: Display by the inputted signal aspect ratio by PC signal, or display in 4:3 aspect ratio at DVD/HD or VIDEO signal.

FULL: Display in entire screen.

DYNAMIC: Expand 4:3 pictures to the entire screen with non-linearity. (Some round image will be cut by expansion.)

CUSTOM (ZOOM): Image can be expanded beyond the active display area. The image which is outside of active display area is not displayed.

REAL: Image will be displayed 1 by 1 pixel.



Picture Mode

RGB 1, 2, 3, 4 HIGHBRIGHT → STANDARD → sRGB

 ↑ ↓

DVD/HD, VIDEO HIGHBRIGHT → STANDARD → CINEMA

 ↑ ↓

Audio Source Switching

You can switch the audio source using the AUDIO INPUT button.

RGB 1, 2 HDMI → AUDIO1 → AUDIO2 → AUDIO3

 ↑ ↓

Other than RGB 1, 2 AUDIO1 → AUDIO2 → AUDIO3

 ↑ ↓

Information OSD

RGB1, 2, 3, 4

RGB3 1024 x 768 48kHz 60Hz AUDIO : 1 SIZE : FULL	← Video Input mode ← Input signal Information ← Audio input mode ← Picture Size mode
--	---

DVD/HD

DVD/HD AUDIO : 3 SIZE : FULL	← Video Input mode ← Audio input mode ← Picture Size mode
------------------------------------	---

VIDEO<S>, VIDEO

VIDEO<S> NTSC AUDIO : 3 SIZE : NORMAL	← Video Input mode ← Input Signal Colour System mode ← Audio input mode ← Picture Size mode
--	--

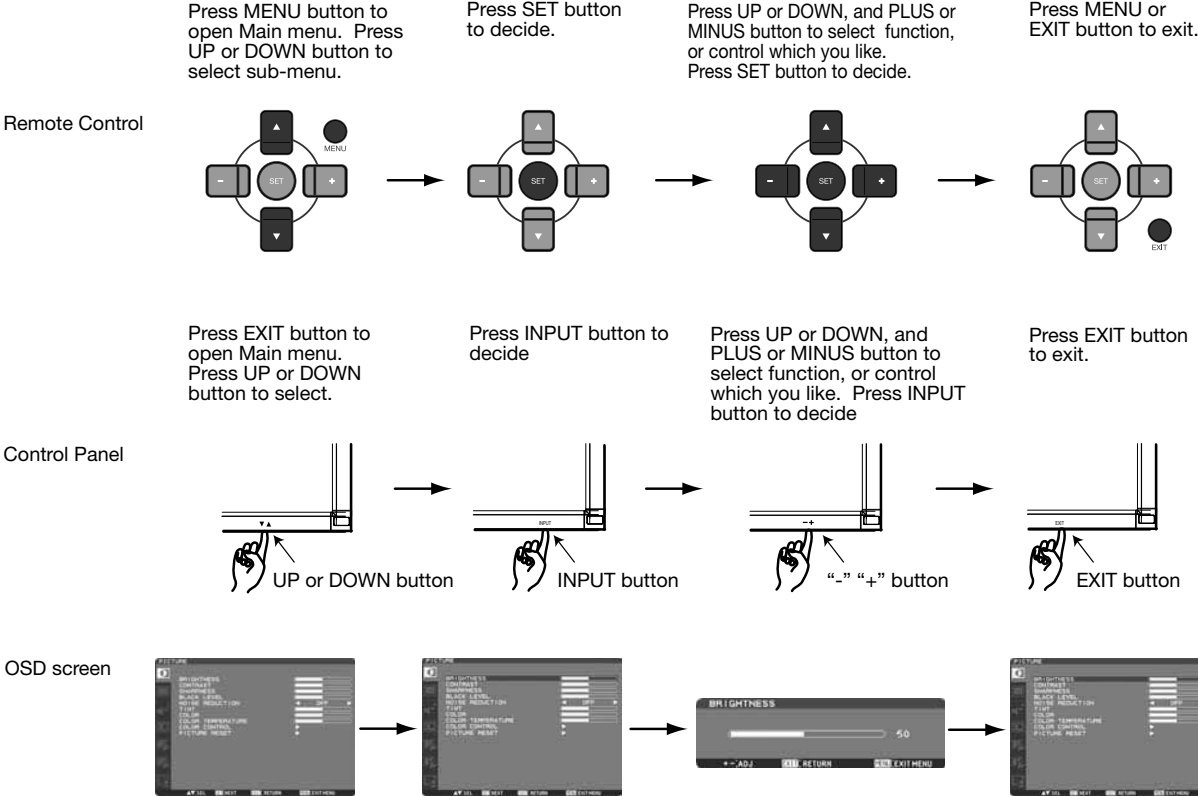
PIP or POP

Main:RGB3

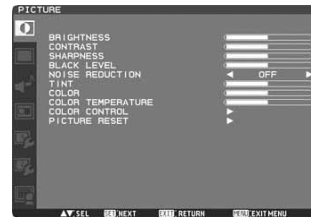
Sub:VIDEO<S>

RGB3 1024 x 768 48kHz 60Hz AUDIO : 1 VIDEO<S> NTSC SIZE : FULL	← Main picture Information ← Sub picture Information ← Main picture Information
--	---

OSD (On-Screen-Display) Controls



Main-Menu



PICTURE

■ BRIGHTNESS

Adjusts the overall image and background screen brightness.
 Press + button to increase brightness.
 Press - button to decrease brightness.

■ CONTRAST

Adjusts the image brightness in relation to the input signal.
 Press + button to increase contrast.
 Press - button to decrease contrast.

■ SHARPNESS

This function is digitally capable to keep crisp image at any timings.
 It is adjustable to get a distinct image or a soft one as you prefer and set independently for each picture mode.
 Press + button to increase sharpness.
 Press - button to decrease sharpness.

■ BLACK LEVEL

Adjusts the image brightness in relation to the background.
 Press + button to increase black level.
 Press - button to decrease black level.
 NOTE: sRGB picture mode is standard and cannot be changed.

■ NOISE REDUCTION * : INPUT VIDEO<S>, VIDEO only

Adjusts the noise reduction level.
 Press + button to increase reduction level.
 Press - button to decrease reduction level.

■ TINT * : INPUT RGB1, 2(DVI-HD), DVD/HD, VIDEO<S>, VIDEO only

Adjust the tint of the screen.
 Press + button the flesh tone color becomes greenish.
 Press - button the flesh tone color becomes purplish.

■ COLOR * : INPUT RGB1, 2(DVI-HD), DVD/HD, VIDEO<S>, VIDEO only

Adjust the color of the screen.
 Press + button to increase color depth.
 Press - button to decrease color depth.

■ COLOR TEMPERATURE

Use to adjust the color temperature.
 The image becomes reddish as the color temperature decreases, and it becomes bluish as the color temperature increases.

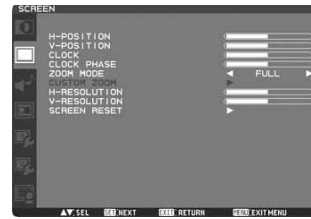
■ COLOR CONTROL

The color levels of red, green, and blue are adjusted by the color bars.
 R: Red, G: Green, B: Blue

■ PICTURE RESET

Selecting Picture reset allows you to reset all OSD settings about PICTURE setting.
 Select "Yes" and press "SET" button to restore to factory preset data.
 Press "EXIT" button to cancel and then return to the previous menu.

Main-Menu



SCREEN

■ H POSITION

Controls Horizontal Image position within the display area of the LCD.
Press + button to move screen to right.
Press - button to move screen to left.

■ V POSITION

Controls Vertical Image position within the display area of the LCD.
Press + button to move screen to UP.
Press - button to move screen to DOWN.

■ CLOCK * : INPUT RGB3,4 only

Press + button to expand the width of the image on the screen the right.
Press - button to narrow the width of the image on the screen the left.

■ CLOCK PHASE * : INPUT RGB3,4 only

Improves focus, clarity and image stability by increasing or decreasing this setting.

■ ZOOM MODE

You can select "FULL", "NORMAL" and "CUSTOM" and "REAL". (INPUT RGB1/2/3/4 only) You can also select "FULL", "NORMAL" "DYNAMIC" and "CUSTOM" and "REAL". (INPUT DVD/HD, VIDEO<S>, VIDEO only)
Selecting "DYNAMIC" will make the screen display panoramic with the expansion of the middle and outside of the screen changed. (The upper and the bottom of the image will be cut by expansion.)
Dynamic image is the same as FULL size image when HDTV signal is input.
Selecting "REAL" image will be displayed 1 by 1 pixel.

■ CUSTOM ZOOM

"CUSTOM ZOOM" will be selected when you select "CUSTOM" on the screen "ZOOM" mode.
ZOOM: expands the horizontal and the vertical size simultaneously.
HZOOM: expands the horizontal size only.
VZOOM: expands the vertical size only.
H POSITION: moves to the right with + button. moves to the left with - button.
V POSITION: moves up with + button. moves down with - button.

■ H RESOLUTION * : INPUT RGB1,2,3,4 only

Adjusts the horizontal size by increasing or decreasing the setting.
Press + button to expand the width of the image on the screen.
Press - button to narrow the width of the image on the screen.


■ V RESOLUTION * : INPUT RGB1,2,3,4 only

Adjusts the vertical size by increasing or decreasing the setting.
Press + button to expand the height of the image on the screen.
Press - button to narrow the height of the image on the screen.

■ SCREEN RESET

Selecting Screen reset allows you to reset all OSD settings from PICTURE setting.
Select "Yes" and press "SET" button to restore the factory preset data.
Press "EXIT" button to cancel and then return to the previous menu.

Main-Menu



AUDIO

- **BALANCE**


Adjust the balance of L/R volume.
 Press + button to move the stereo sound image to right.
 Sound of the left side will be small.
 Press - button to move the stereo sound image to left.
- **TREBLE**

To accentuate or reduce the high frequency sound.
 Press + button to increase TREBLE sound.
 Press - button to decrease TREBLE sound.
- **BASS**

To accentuate or reduce the low frequency sound.
 Press + button to increase BASS sound.
 Press - button to decrease BASS sound.
- **AUDIO RESET**

Selecting Audio reset allows you to reset all OSD settings from AUDIO setting.
 Select "YES" and press "SET" button to restore the factory preset.
 Press "EXIT" button to cancel and then return to the previous menu.

Main-Menu



PIP (PICTURE IN PICTURE)

Note: The "PIP" and "POP" modes do not function when the screen size is "CUSTOM" or "REAL".

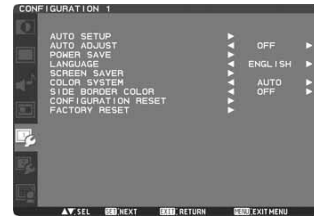
- **PIP SIZE**

Selecting the size of picture inserted at the "Picture-in-Picture" (PIP) mode.
 "Large", "Middle" and "Small" are available.
- **PIP AUDIO**

Selecting the sound source in PIP mode.
 When selecting "MAIN AUDIO", you will get the sound for the main picture and when selecting "PIP AUDIO", you will get the sound for the picture instead.
- **PIP RESET**

Selecting PIP Reset allows you to reset all OSD settings from PIP setting.
 Select "Yes" and press "SET" button to restore the factory preset data.
 Press "EXIT" button to cancel and then return to the previous menu.

Main-Menu



CONFIGURATION 1

■ AUTO SETUP * : INPUT RGB3,4 only

Press "SET" button to automatically adjust screen size, horizontal position, vertical position, clock, clock phase, white level and black level.

Press "EXIT" button to cancel execution AUTO SETUP and then will return to the previous menu.

■ AUTO ADJUST * : INPUT RGB3,4 only

Selecting the auto adjust ON/OFF.

Selecting ON when changing the timing, the horizontal position, vertical position and clock-phase will adjust automatically.

■ POWER SAVE

Selecting RGB "ON", the monitor will go to power management mode when RGB1,2,3,4 sync is lost.

Selecting VIDEO "ON", the monitor will go to power management mode after about 10 minutes delay from when DVD/HD and VIDEO input signal is lost.

■ LANGUAGE

OSD control menus are available in seven languages.

(English, German, Spanish, French, Italian, Swedish, Chinese and Japanese)

■ SCREEN SAVER

Select "SCREEN SAVER" functions to reduce the risk of the "image persistence".

GAMMA: The display gamma is changed and fixed when selected "ON".

COOLING FAN: The built in cooling fan is always on when set "ON".

BRIGHTNESS: The brightness is decreased when selected "ON".

MOTION: Image is slightly expanded and moves 4 directions (UP, DOWN, RIGHT, LEFT) periodically (Need setting the time for movement).

Movement area is approximately +/- 10mm from original position;

Please locate the important information such as text within 90% area of screen image.

See note (1) for this functions.

PIP and STILL will be disabled when "MOTION" is active.

■ COLOR SYSTEM * : INPUT VIDEO<S>, VIDEO only

Selecting the Color System depends on your input video format.

AUTO: NTSC, PAL, SECAM, PAL60 or 4.43 NTSC is automatically selected.

NTSC: Specific selection of NTSC.

PAL: Specific selection of PAL.

SECAM: Specific selection of SECAM.

PAL-60: Specific selection of PAL60.

4.43NTSC: Specific selection of 4.43 NTSC.

■ SIDE BORDER COLOR

Use to adjust the brightness of the black areas displayed on both sides of 4:3 image.

OFF, 50, and 100 are selectable.

■ CONFIGURATION RESET

Selecting the CONFIGURATION RESET allows you to reset all configuration settings.

Select "Yes" and press "SET" button to restore the factory preset data.

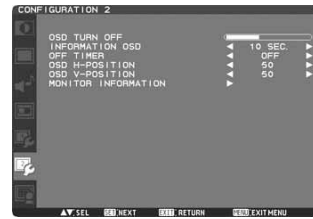
Press "EXIT" button to cancel and return the previous menu.

■ FACTORY RESET

Selecting "YES" allows you to reset PICTURE, SCREEN, AUDIO, CONFIGURATION1,2 and ADVANCED OPTION will be back to factory settings (except LANGUAGE, DATE & TIME and SCHEDULE).

Select "YES" and press "SET" button to restore the factory preset data. Press "EXIT" button to cancel and return the previous menu.

Main-Menu



CONFIGURATION 2

■ OSD TURN OFF

The OSD control menu will stay on as long as it is use. In the OSD Turn Off submenu, you can select how long the monitor waits after the last touch of a button to shut off the OSD control menu. The preset choices are 5 -120 seconds.

■ INFORMATION OSD

Selects the information OSD display or not. The information OSD will display when input signal or source change or warning message like as no-signal or out-of range. A time between 1 to 10 seconds is available.

■ OFF TIMER

To select OFF TIMER mode ON/OFF. In the OFF TIMER menu, you can preset the monitor to automatically power down. A time between 1 to 24 hours is available. When the OFF TIMER is set, the SCHEDULE (see page 29) settings will be disabled.

■ OSD H POSITION

Adjusts the horizontal position of the OSD menu.

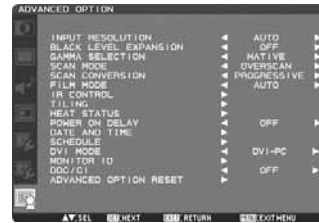
■ OSD V POSITION

Adjusts the vertical position of the OSD menu.

■ MONITOR INFORMATION

Indicates the model and serial number of your monitor.

Main-Menu



ADVANCED OPTION

■ INPUT RESOLUTION * : INPUT RGB3,4 only

Selects to decision of input signal about below timings, 1024x768, 1280x768 and 1360x768.

AUTO: Determines the resolution automatically.

1024x768: Determines the resolution as 1024x768

1280x768: Determines the resolution as 1280x768

1360x768: Determines the resolution as 1360x768

This function is available when POWER ON/OFF after setting.

■ BLACK LEVEL EXPANSION * : INPUT RGB1,2(DVI-HD), VIDEO<S>, VIDEO only

Selects a level of black expansion.

In case of go under the black cut-off level, please adjust the "Black level" in moderation on OSD menu.

■ GAMMA SELECTION

Selects a display gamma.

2.2

2.4

S gamma

Native

NOTE: sRGB picture mode is standard and cannot be changed.

■ SCAN MODE * : INPUT DVD/HD, VIDEO<S>, VIDEO only

Changes the display area of the image.

OVERSCAN: Set to display area about 95%

UNDERSCAN: Set to display area about 100%

■ SCAN CONVERSION * : INPUT DVD/HD, VIDEO<S>, VIDEO only

Selects IP (Interlace to Progressive) converter function.

PROGRESSIVE: Enable the IP function, to convert interlace signal to progressive. Normally use this setting.

INTERLACE*: Disable the IP function.

*NOTE: This mode is better suited for motion pictures, but it increases chance of image retention.

■ FILM MODE * : INPUT DVD/HD, VIDEO<S>, VIDEO only

Selects Film mode function.

AUTO: Enable the Film mode function. This mode is better suited for movies, which is converted 24 Frames/sec source to DVD Video. We recommend to select "PROGRESSIVE" in "SCAN CONVERSION".

OFF: Disable the Film mode function. This mode is better suited for Broadcasting or VCR source.

■ IR CONTROL

Selects the operation mode of the wireless remote controller when multiple LDT461V monitors are connected via RS-232C.

The item in this menu will become effective by pressing "SET" button on the selected item.

NORMAL: The monitor will be controlled normally by wireless remote controller.

PRIMARY: The first LDT461V monitor of those multi-connected via RS-232C is designated as PRIMARY.

SECONDARY: LDT461V monitors other than the first one multi-connected via RS-232C are designated as SECONDARY.

LOCK: Disable the monitor control by infrared wireless remote controller.

Keep pressing "DISPLAY" button during 5 sec or more, this setting will return to "NORMAL".

■ TILING

TILING demonstrates multiple screens. This feature provides a single large screen using up to 16 monitors. It will be able to divide up to 4 each H and V.

This requires you to feed the PC output into each of the monitors through a distributor.

H MONITORS: Select number of horizontal divide.

V MONITORS: Select number of vertical divide.

POSITION: Select a position to expand the screen.

FRAME COMP: Works in tandem with TILING to compensate for the width of the tile bezels in order to accurately display the image.

ENABLE: Select "YES", the monitor will expand the selected position.

PIP and STILL will be disabled when "TILING" is activated.

■ HEAT STATUS

Information of status for COOLING FAN, BRIGHTNESS and TEMPERATURE.

COOLING FAN comes to run when inside temperature is over a guaranteed limit.

In this case warning is displayed on the screen.

■ POWER ON DELAY

Adjusts the delay time from "standby" to "power on" mode.

"POWER ON DELAY" time is selectable from OFF, 2sec, 4sec, 6sec, 8sec, 10sec, 20sec, 30sec, 40sec and 50sec.

■ DATE AND TIME

Adjusts the current date and time for internal clock.

You should set this function when you use "SCHEDULE".

■ SCHEDULE

Programs the monitor's working schedule.

Schedule the power on and power off with hour and a day of the week. Also sets the input port.

This OSD can't remove except EXIT.

(see "NOTE 2" on page 30 for further information)

■ HDMI 1 INPUT MODE * : INPUT RGB1 (HDMI1) only

Selects the HDMI 1 INPUT mode.

Select "PC" when PC or other computer equipment is connected via HDMI.

Select "HD" when DVD player, which has HDMI output, is connected via HDMI.

■ HDMI 2 INPUT MODE * : INPUT RGB2 (HDMI2) only

Selects the HDMI 2 INPUT mode.

Select "PC" when PC or other computer equipment is connected via HDMI.

Select "HD" when DVD player, which has HDMI output, is connected via HDMI.

■ MONITOR ID

ID numbers for remote control are assigned to LDT461V monitors that are multi-connected via RS-232C.

ID numbers 1 to 26 are selectable.

■ DDC/CI

Use to turn ON or OFF the DDC/CI communication function. Select ON for normal use.

■ ADVANCED OPTION RESET

Selecting ADVANCED OPTION reset allows you to reset all OSD settings from ADVANCED OPTION settings, except for DATE & TIME.

Select "YES" and press "SET" button to restore the factory preset data.

Press "EXIT" button to cancel and then return the previous menu.

NOTE 1: IMAGE PERSISTENCE

Please be aware that LCD Technology may experience a phenomena known as Image Persistence. Image Persistence occurs when residual or "ghost" image of a previous image remains visible on the screen. Unlike CRT monitors, LCD monitors' image persistence is not permanent, but constant images being displayed for a long period of time should be avoided. To alleviate image persistence, turn off the monitor for as long as the previous image was displayed. For example, if an image was on the monitor for one hour and a residual image remains, the monitor should be turned off for one hour to erase the image.

As with all personal display devices, MITSUBISHI ELECTRIC recommends displaying moving images and using a moving screen saver at regular intervals whenever the screen is idle or turning off the monitor when not in use.

Please set "POWER SAVE", "SCREEN SAVER", "DATE & TIME" and "SCHEDULE" functions to further reduce the risk of Image persistence.

For long life use of Public Display

< Image Sticking of LCD Panel >

When LCD panel is operated continuously for long hours, a trace of electric charge remains near the electrode inside LCD, and residual or "ghost" image of previous image may be observed. (Image Persistence)

Image Persistence is not permanent, but when fixed image is displayed for long period, ionic impurities inside LCD are accumulated along the displayed image, and it is observed permanently. (Image Sticking)

< Recommendations >

For preventing the fast transition to Image Sticking, and for longer life usage of LCD, following are recommended.

1. Fixed image should not be displayed for long period, and changed to another images with short cycle.
2. When no use, please turn off the monitor by remote control, or use Power Management Function of monitor or use Schedule Function of monitor.
3. Reducing the environmental temperature is effective for long life use.

When Protection board (glass, acryl) is installed over the LCD surface, enclosed into the box / wall, or stack the monitor, please utilize the temperature sensors inside monitor.

To reduce the environmental temperature, the monitor should be set Low Brightness or Cooling Fan "ON" by using Screen sever Function.

4. Please use "Screen Saver Mode" of monitor.

NOTE 2: HOW TO SETUP SCHEDULE

Using the "SCHEDULE" function allows you to set up to seven different scheduled time intervals when the LCD Monitor will be activated.

You can select the time the monitor turns on and turns off, the day of week the monitor is activated, and which input source the monitor will use for each scheduled activation period. A check mark in the box next to the number of the schedule indicates that the selected schedule is in effect.

To select which schedule to set, use the up/down arrows to move the number (1 to 7) of the schedule.

Use the (+) and (-) buttons to move the cursor horizontally within the particular schedule. Use the (▲) and (▼) buttons to increase time and select input port. The "SET" button is used to make a selection.

If you create a schedule but do not want to use a power on time, select "--" in the "ON" time slot.

If you do not want to use a power off time select "--" in the OFF time slot.

If there is no input selected ("--" showing in the input spot) the input from the previous schedule will be used.

The selection of EVERY DAY within a schedule takes priority over other schedules that are set up to operate weekly.

When schedules are overlapping, scheduled Power ON time has priority over scheduled Power OFF time.

If there are two schedules programmed for the same time, then the highest numbered schedule has priority.

When the "OFF TIMER" (see page 27) is set, the "SCHEDULE" function is disabled.

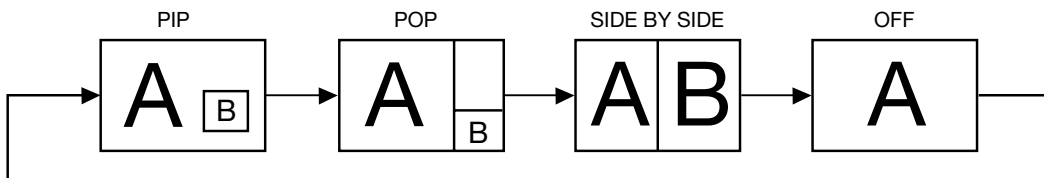
NOTE 3: “PIP”, “POP” and “SIDE BY SIDE”

The following table shows the combination of signal inputs under which the “PIP” and “POP” modes function. These modes do not function, however, when the screen size is “CUSTOM” or “REAL”.

		SUB						
		RGB1	RGB2	RGB3	RGB4	DVD/HD	VIDEO<S>	VIDEO
MAIN	RGB1	X	X	X	X	X	○	○
	RGB2	X	X	X	X	X	○	○
	RGB3	X	X	X	X	X	○	○
	RGB4	X	X	X	X	X	○	○
	DVD/HD	X	X	X	X	X	○	○
	VIDEO<S>	○	○	○	○	○	X	X
	VIDEO	○	○	○	○	○	X	X

○ : Supported
 X : Not supported

Press the “PIP ON/OFF” buttons on the remote control to change between “PIP”, “POP” and “SIDE BY SIDE” mode as shown in the diagram below.



“PIP”, “POP” mode resolution (Reference)

- PIP SIZE < SMALL > : 320 dots X 240 dots
- < MIDDLE > : 480 dots X 320 dots
- < LARGE > : 640 dots X 480 dots
- POP SIZE : 320 dots X 240 dots

< Remote control numbering function >

By connecting multiple LDT461V monitors using RS-232C cables, you can control any one monitor or all the monitors by one remote controller.

1. Assign arbitrary ID number to each of multi-connected LDT461V monitors using MONITOR ID.
 ID numbers 1 to 26 are selectable.
 It is recommended to assign sequential ID numbers from 1 and up.
2. The remote control mode of the first LDT461V monitor is set to PRIMARY and those of the other monitors are set to SECONDARY.
3. When you direct the remote controller at the remote control signal sensor of the PRIMARY monitor and press the DISPLAY button on the remote controller, the ID selection OSD appears at the upper left of the screen.



— ID number of the currently viewed monitor

— Select the ID number of the monitor you want to control using the +/- button on the remote controller.
 The ID of the monitor you want to control is displayed at the upper left of its screen.
 By selecting ALL, you can control all the multi-connected monitors.

4. Direct the remote controller at the remote control signal sensor of the PRIMARY monitor.
 OSD appears on the monitor having the ID number you selected.

NOTE:

When the ID selection OSD is being displayed on the PRIMARY monitor, press the DISPLAY button on the remote controller again to cancel the ID selection OSD and then control the monitor you selected.

HINT:

If you set the remote control mode wrongly and remote control operation becomes unavailable, press any button on the control panel of the monitor to display the OSD screen and change the remote control mode using ADVANCED OPTION. By pressing and holding down the DISPLAY button on the remote control for 5 seconds or longer, the remote control mode is initialized to NORMAL.

Controlling the LCD monitor via RS-232C Remote Control

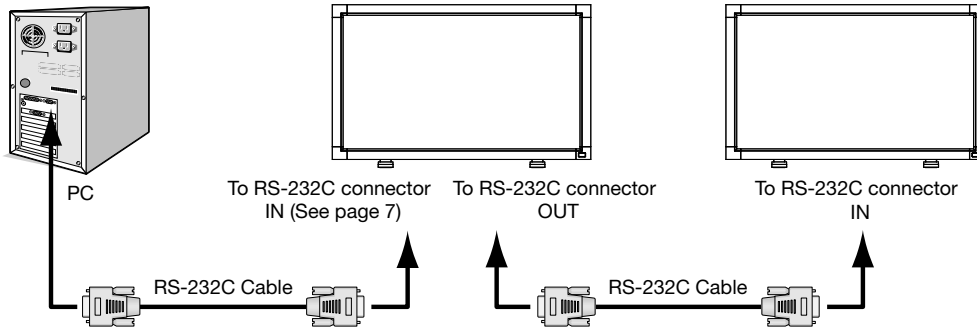
This LCD monitor can be controlled by connecting a personal computer with a RS-232C terminal.

Functions that can be controlled by a personal computer are:

- Power ON or OFF
- Switching between input signals

Connection

LCD Monitor + PC



NOTE:

If your PC (IBM or IBM compatible) is equipped only with a 25-pin serial port connector, a 25-pin serial port adapter is required. Contact your dealer for details.

1) Interface

PROTOCOL	RS-232C
BAUD RATE	9600 [bps]
DATA LENGTH	8 [bits]
PARITY BIT	NONE
STOP BIT	1 [bits]
FLOW CONTROL	NONE

This LCD monitor uses RXD, TXD and GND lines for RS-232C control.

For RS-232C cable, the reverse type cable should be used.

2) Control command diagram

The command is structured by the address code, function code, data code and end code. The length of the command is different for each function.

	Address code	Function code	Data code	End code
HEX	30h 30h	Function	Data	0Dh
ASCII	'0' '0'	Function	Data	↵

[Address code] 30h 30h (In ASCII code, '0' '0') fixed.

[Function code] A code of each fixed control move.

[Data code] A code of each fixed control data (number) and not always indicated.

[End code] 0Dh (In ASCII code, '↵') fixed.

3) Control sequence

- (1) The command from a computer to the LCD monitor will be sent in 600 ms.
- (2) The LCD monitor will send a return command 600 ms* after it has received and encoded. If the command isn't received correctly, the LCD monitor will not send the return command.
- (3) The personal computer checks the command and confirms if the command, which has been sent, has been executed or not.
- (4) This LCD monitor sends various codes other than return code. When having a control sequence by RS-232C, reject other codes from personal computers side.

* : The sending time of return command may delay depending on the condition (during changing of the input signal, etc.).

Example: Turn the power ON (' ' is for ASCII code)

Sending commands from the PC	Status code from LCD monitor	Meaning
30 30 21 0D '0' '0' '!' '␣'		Command for POWER ON
	30 30 21 0D '0' '0' '!' '␣'	Command received (Command echoed back)

4) Operation commands

The operation commands execute the basic operation setting of this LCD monitor.

It may not operate when changing the signal:

Operation	ASCII	HEX
POWER ON	!	21h
POWER OFF	"	22h
INPUT RGB 1	_r1	5Fh 72h 31h
INPUT RGB 2	_r2	5Fh 72h 32h
INPUT RGB 3	_r3	5Fh 72h 33h
INPUT RGB 4	_r4	5Fh 72h 34h
INPUT VIDEO	_v1	5Fh 76h 31h
INPUT DVD/HD	_v2	5Fh 76h 32h
INPUT S-VIDEO*	_v3	5Fh 76h 33h

- POWER OFF command should be operated over 1 minute after the power is turned on.
- POWER ON command should be operated over 1 minute after the power is turned off.

* S-VIDEO is SEPARATE only

5) Read command

Host computer sends the command without Data-code to monitor.

After receiving this command, the monitor returns the command with Data-code of current status to host computer.

< ex. > When Host computer ask Power status of monitor, the status of monitor is powered-on.

Command from computer	Command from Monitor	Detail of command
30 30 76 50 0D '0' '0' 'v' 'P'[enter]		Ask about the power status of monitor
	30 30 76 50 31 0D '0' '0' 'v' 'P' '1'[enter]	Monitor is powered-on.

Structure of the Read-command

		ASCII		HEX	
		Function	Data (Receive)	Function	Data (Receive)
POWER	ON	vP	1	76 50	31
	OFF(stand by)	vP	0	76 50	30
Input	RGB-1(HDMI1)	vl	r1	76 49	72 31
	RGB-2(HDMI2)	vl	r2	76 49	72 32
	RGB-3(D-SUB)	vl	r3	76 49	72 33
	RGB-4(BNC)	vl	r4	76 49	72 34
	Video	vl	v1	76 49	76 31
	DVD/HD	vl	v2	76 49	76 32
Picture mode	S-VIDEO	vl	v3	76 49	76 33
	HIGHBRIGHT	vM	p1	76 4D	70 31
	STANDARD	vM	p2	76 4D	70 32
Temperature of internal monitor	Around Main board	resolution 1 °C	tc1	(ex.) +25	74 63 31
	Around Power PCB	resolution 1 °C	tc2	(ex.) +31	74 63 32
					2B 20 32 35
					2B 20 33 31

Features

Reduced Footprint:

Provides the ideal solution for environments requiring superior image quality but with size and weight limitations. The monitor's small footprint and low weight allow it to be moved or transported easily from one location to another.

Color Control Systems:

Allows you to adjust the colors on your screen and customize the color accuracy of your monitor to a variety of standards.

sRGB Color Control:

A new optimized color management standard which allows for color matching on computer displays and other peripherals. The sRGB standard, which is based on a calibrated color space, allows for optimal color representation and backward compatibility with other common color standards.

OSD (On-Screen-Display) Controls:

Allow you to quickly and easily adjust all elements of your screen image via simple to use on-screen menus.

Plug and Play:

The Microsoft® solution with the Windows® 95/98/Me/2000/XP operating system facilitates setup and installation by allowing the monitor to send its capabilities (such as screen size and resolutions supported) directly to your computer, automatically optimizing display performance.

Intelligent Power Manager System:

Provides innovative power-saving methods that allow the monitor to shift to a lower power consumption level when on but not in use, saving two-thirds of your monitor energy costs, reducing emissions and lowering the air conditioning costs of the workplace.

Multiple Frequency Technology:

Automatically adjusts monitor to the display card's scanning frequency, thus displaying the resolution required.

FullScan Capability:

Allows you to use the entire screen area in most resolutions, significantly expanding image size.

Wall Mounting Interface:

Allows for the monitor to be mounted on a wall or an arm using any third party compliant device. MITSUBISHI ELECTRIC recommends using mounting interface that comply with TÜV-GS and/or UL1678 standard in North America.

TILING, Frame compensation:

Demonstrates multiple screens with an accurate image and compensates for the bezel width.

ZOOM:

Expands the image individually for horizontal and vertical direction.

Self-diagnosis:

When an internal error should occur, a failure state will be indicated.

Automatic Long Cable Compensation:

Automatic long cable compensation prevents image quality degradation (color shift and dull signals) caused by long cable lengths.

Troubleshooting

No picture

- The signal cable should be completely connected to the display card/computer.
- The display card should be completely seated in its slot.
- Front Power Switch and computer power switch should be in the ON position.
- Check to make sure that a supported mode has been selected on the display card or system being used. (Please consult display card or system manual to change graphics mode.)
- Check the monitor and your display card with respect to compatibility and recommended settings.
- Check the signal cable connector for bent or pushed-in pins.
- If nothing is displayed on the screen when HDCP device is connected, reset the power of the device.

Power Button does not respond

- Unplug the power cord of the monitor from the AC outlet to turn off and reset the monitor.

Image persistence

- Please be aware that LCD Technology may experience a phenomenon known as Image Persistence. Image Persistence occurs when a residual or “ghost” image of a previous image remains visible on the screen. Unlike CRT monitors, LCD monitors’ image persistence is not permanent, but constant images being displayed for a long period of time should be avoided. To alleviate image persistence, turn off the monitor for as long as the previous image was displayed. For example, if an image was on the monitor for one hour and a residual image remains, the monitor should be turned off for one hour to erase the image.

NOTE:

As with all personal display devices, MITSUBISHI ELECTRIC recommends displaying moving images and using a moving screen saver at regular intervals whenever the screen is idle or turning off the monitor when not in use.

Image is unstable, unfocused or swimming is apparent

- Signal cable should be completely attached to the computer.
- Use the OSD Image Adjust controls to focus and adjust display by increasing or decreasing the fine adjustment. When the display mode is changed, the OSD Image Adjust settings may need to be re-adjusted.
- Check the monitor and your display card with respect to compatibility and recommended signal timings.
- If your text is garbled, change the video mode to non-interlace and use 60 Hz refresh rate.

Image of component signal is greenish

- Check to see if the DVD/HD input connector is selected.

LED on monitor is not lit (no green or red color can be seen)

- Power Switch should be in the ON position and power cord should be connected.
- Make certain the computer is not in a power-saving mode (touch the keyboard or mouse).

RED LED on monitor is blinking

- A certain failure might have occurred, please contact your nearest authorized MITSUBISHI ELECTRIC service facility.

Display image is not sized properly

- Use the OSD Image Adjust controls to increase or decrease the coarse adjustment.
- Check to make sure that a supported mode has been selected on the display card or system being used. (Please consult display card or system manual to change graphics mode.)

Selected resolution is not displayed properly

- Use OSD Display Mode to enter Information menu and confirm that the appropriate resolution has been selected. If not, select corresponding option.

No Sound

- Check to see if speaker cable is properly connected.
- Check to see if mute is activated.
- Check to see if volume is set at minimum.

Remote Control is not available

- Check the Remote Control's batteries status.
- Check if batteries are inserted correctly.
- Check if the Remote Control is pointing at the monitor's remote sensor.

“SCHEDULE”/“OFF TIMER” function is not working properly

- The “SCHEDULE” function will be disabled when the “OFF TIMER” is set.
- If the “OFF TIMER” function is enable and the power to the LCD monitor is turned off if the power supply is interrupted unexpectedly, then the “OFF TIMER” will be reset.

Stripe Noise

Either light vertical or horizontal stripes may appear, depending on the specific display pattern. This is no product fault or degradation.

“NO SIGNAL” is displayed on the screen

Image may not be displayed right after HDCP device is connected.

Specifications

English

Specifications (LDT461V)

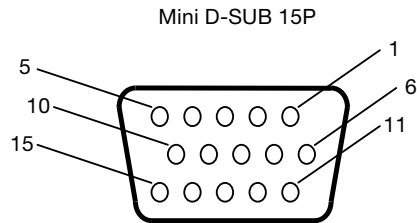
Product Specifications		Analog Input	Digital Input
LCD Module	Diagonal: Pixel Pitch: Resolution: Color: Brightness: Contrast Ratio: Response time: View Angle: Design View Distance:	46" / 116.8 cm 0.53025 mm 1920 x 1080 dots Over 16 million colors (depending on video card used) 450 cd/m2 (typ.) 1500:1 (typ.) 6 ms (typ. G to G) Up and Down 176°, Left and Right 176° (typ.) @CR>10 1000 mm / 39.4 inches	
Frequency	Horizontal: Vertical:	15.625 / 15.734, 31.5 - 91.1 kHz 50.0 / 58.0 - 85.0 Hz	
Pixel Clock		13.5 -165.0 MHz	25.0 -165.0 MHz
Viewable Size		1018.08 x 572.67 mm / 40.1 x 22.5 inches	
Input Signal			
PC-Input:	Video: Sync:	Analog RGB Video: 0.7 Vp-p Input impedance 75 ohm Separate HV sync: TTL level (Pos./Neg.), Sync-on-green Input Impedance 2.2K ohm	TMDS
VIDEO Input:	Input-terminal:	BNC (R,G,B,H,V), 15 Pin Mini D-sub Composite: 1.0 Vp-p Input impedance 75ohm BNC and RCA-PINJACK-INPUT Y/C Y: 1 Vp-p C: 0.286 Vp-p Input Impedance 75 ohm S-TERMINAL-INPUT Component: 1.0 / 0.7 Vp-p	HDMI
AUDIO Input: RS-232C:	In:	RCA PIN-JACK L/R INPUT x 2, STEREO Mini Jack INPUT x 1 9 Pin Mini D-sub	
Output Signal			
PC-Output:	Video: Sync: Output-terminal:	Analog RGB Video: 0.7 Vp-p with 75 ohm terminated Separate HV sync: TTL level (Pos./Neg.) 15 Pin Mini D-sub	
VIDEO Output: AUDIO Output: Speaker Output: RS-232C:	Out:	BNC-OUTPUT x 1, Composite 1.0 Vp-p with 75 ohm terminated RCA PIN-JACK L/R OUTPUT x 1, 0.15 Vrms with 47k ohm terminated External Speaker Jack 7 W + 7 W (8 ohm) 9 Pin Mini D-sub	
Resolutions Supported		640 x 480 at 60 Hz to 85 Hz 800 x 600 at 50 Hz, 60Hz to 85 Hz 1024 x 768 at 50 Hz, 60Hz to 85 Hz 1280 x 768 at 50 Hz, 60Hz to 85 Hz 1360 x 768 at 50 Hz, 60Hz to 85 Hz 1280 x 1024 at 60Hz to 85 Hz 1600 x 1200 at 60 Hz 1920 x 1080 at 60Hz* * Recommended Resolution NTSC,PAL,SECAM,4.43NTSC,PAL60 Component:480i,480p,720p,1080i,1080p	
Power Supply		2.3 - 1.05 A @100 - 240 V AC, 50 / 60 Hz	
Power Consumption		Max 230 W	
	Power Save:	Less than 5 W (Power button OFF/Main power switch ON)	
Operational Environment	Temperature: Humidity:	Landscape: 5 - 40 °C / 41-104 °F, Portrait : 5 - 35 °C / 41 - 95 °F 20 - 80 % (Without condensation)	
Storage Environment	Temperature: Humidity:	-20 - 60 °C / -4 - 140 °F 10 - 90% (Without condensation)/90%-3.5%x(Temp-40°C) regarding over 40°C	
Dimension	Net without stand: Net with stand: Gross:	1022 mm (W) x 612 mm (H) x 126.8 mm (D) / 40.24" (W) x 24.09" (H) x 4.99" (D) 1022 mm (W) x 643.3 mm (H) x 386.1 mm (D) / 40.24" (W) x 25.33" (H) x 15.2" (D) 1180 mm (W) x 758 mm (H) x 290 mm (D) / 46.46" (W) x 29.84" (H) x 11.42" (D)	
Weight	Net without stand: Net with stand: Gross:	57.2 lbs / 26 kg (Approximately) 60.3 lbs / 27.4 kg (Approximately) 73.7 lbs / 33.5 kg	
Wall mounting interface		12 Holes (100 mm pitches) Optional Multi-purpose Fix Mount	
Complied Regulatory and Guidelines		UL60950-1/C-UL/TUV-GS/EN60950-1/FCC-B/DOC-B/EN55022-B EN55024/EN61000-3-2/EN61000-3-3/C-Tick/CE/BSMI/GOST/PSB	
Power Management		VESA DPM	
Plug & Play		VESA DDC2B, DDC/CI	
Accessories		User's Manual, Power Cord, Video Signal Cable, Remote Controller, AAA Battery x 2, Clamper x 2 (To prevent from falling), Clamper x 2 (For securing cables), Screw for Main switch cover x 2, Screw for CLAMPER x 2, Cable Holder x 2, Main switch cover, Stand x 2, Thumbscrew for stand x 4	

Note: Technical specifications are subject to change without notice.

Pin Assignment

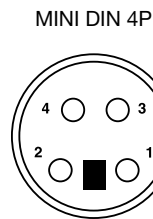
1) Analog RGB input (Mini D-SUB 15P): R G B 3

Pin No	Name
1	Video Signal Red
2	Video Signal Green
3	Video Signal Blue
4	GND
5	DDC-GND
6	Red-GND
7	Green-GND
8	Blue-GND
9	+5V (DDC)
10	SYNC-GND
11	GND
12	DDC-SDA
13	H-SYNC
14	V-SYNC
15	DDC-SCL



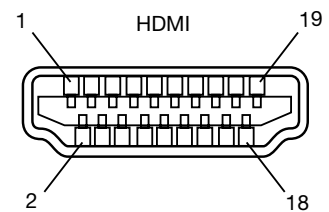
2) S-VIDEO input (MINI DIN 4P): V I D E O <S>

Pin No	Name
1	GND
2	GND
3	Y (Luminance)
4	C (Chroma)



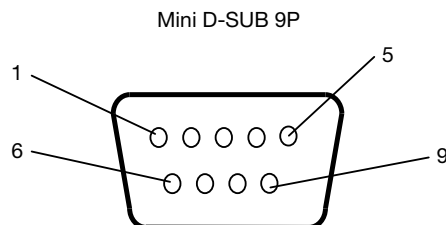
3) Digital RGB input (HDMI): R G B 1, R G B 2

Pin - Assignment of HDMI connector:					
1	TMDS Data2+	8	TMDS Data0 Shield	15	SCL
2	TMDS Data2 Shield	9	TMDS Data0-	16	SDA
3	TMDS Data2-	10	TMDS Clock+	17	DDC/CEC Ground
4	TMDS Data1+	11	TMDS Clock Shield	18	+5V Power
5	TMDS Data1 Shield	12	TMDS Clock-	19	Hot Plug Detect
6	TMDS Data1-	13	CEC		
7	TMDS Data0+	14	Reserved (N.C. on device)		



4) RS-232C input/output

Pin No	Name
1	NC
2	RXD
3	TXD
4	NC
5	GND
6	NC
7	RTS
8	CTS
9	NC



MITSUBISHI Contact Information

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	Fax	:+1-(905) 475-7958

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E-mail :support@mitsubishielectric.ca

MDEA (Mitsubishi Digital Electronics America, Inc.)
(Warranty Registration)
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Presentation Products Division, 9351 Jeronimo Road, Irvine, CA 92618 U.S.A

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	Product Informatio	:+1-(888) 307-0312

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